

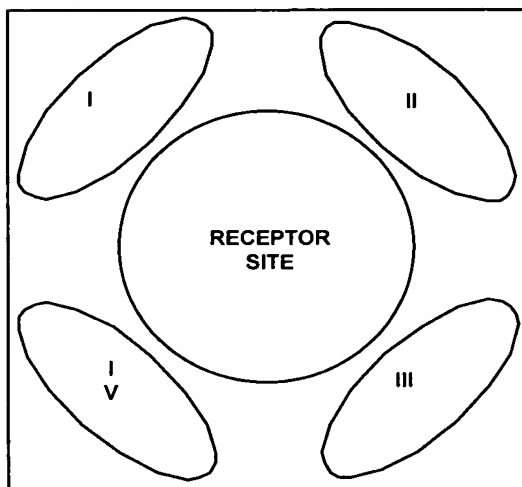


Inventor: CARLSON
Docket No.: 14095.1US11
Title: ARTIFICIAL RECEPTORS, BUILDING BLOCKS, AND METHODS
Serial No.: 10/813,568
Sheet 1 of 42

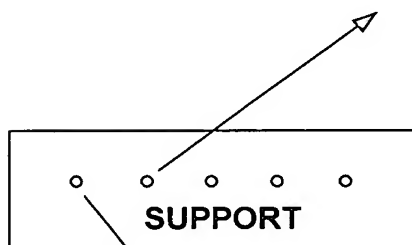
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FIG.1

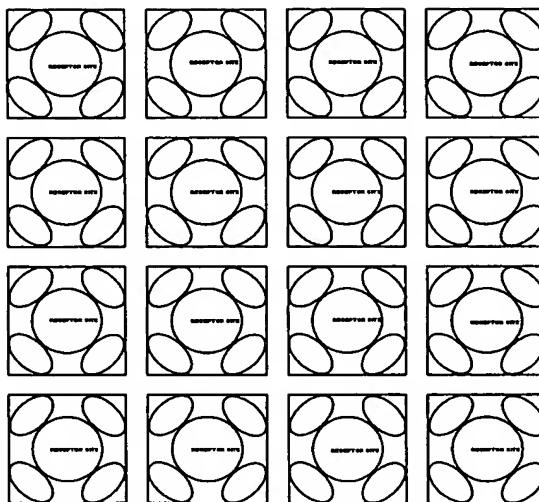
TOP VIEW



RECEPTOR
UNIT CELL



MULTIPLE *UNIT CELL* REPRESENTATION



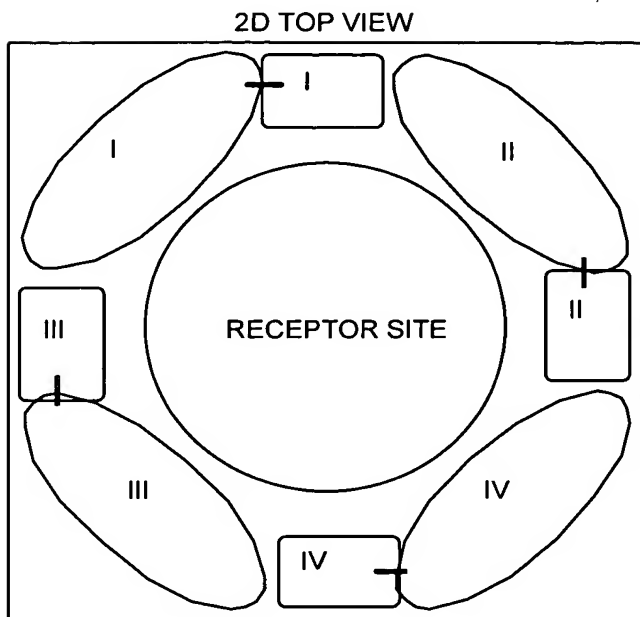


FIG.2

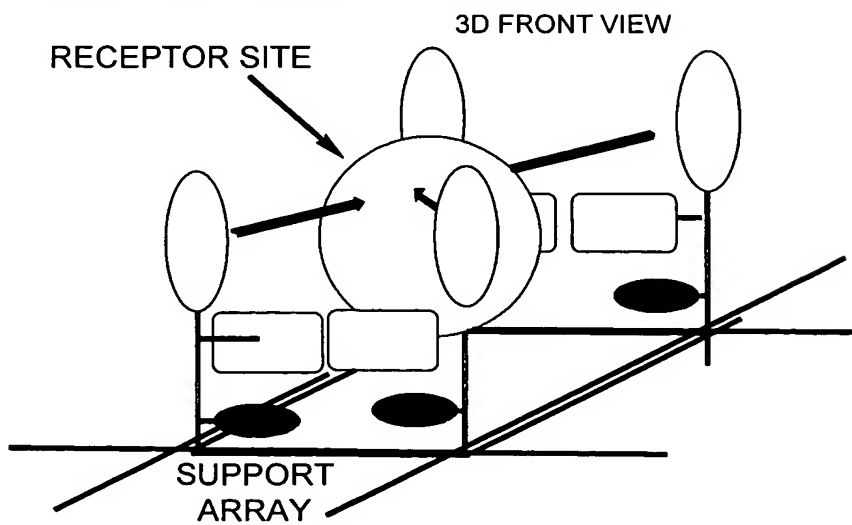
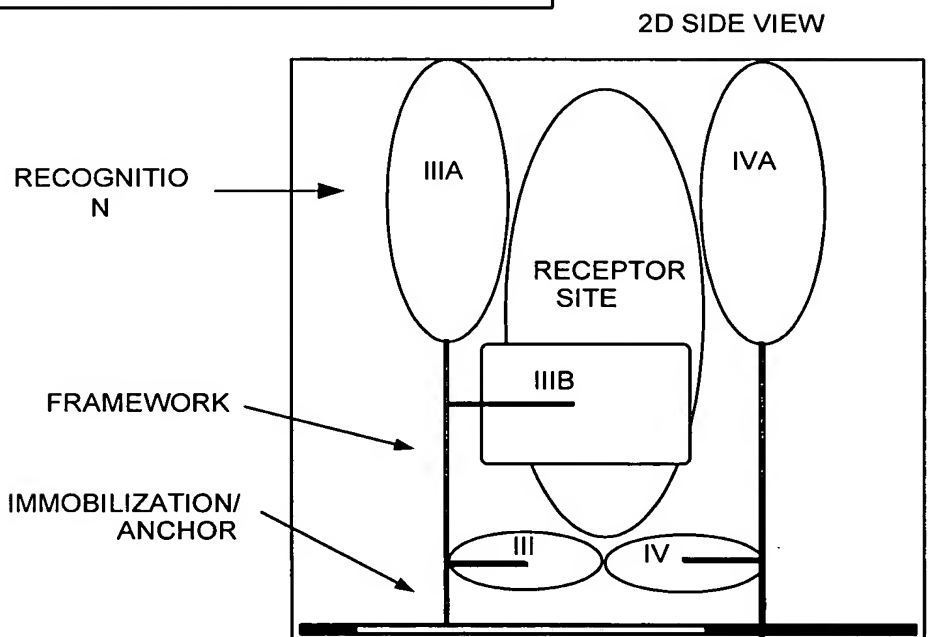
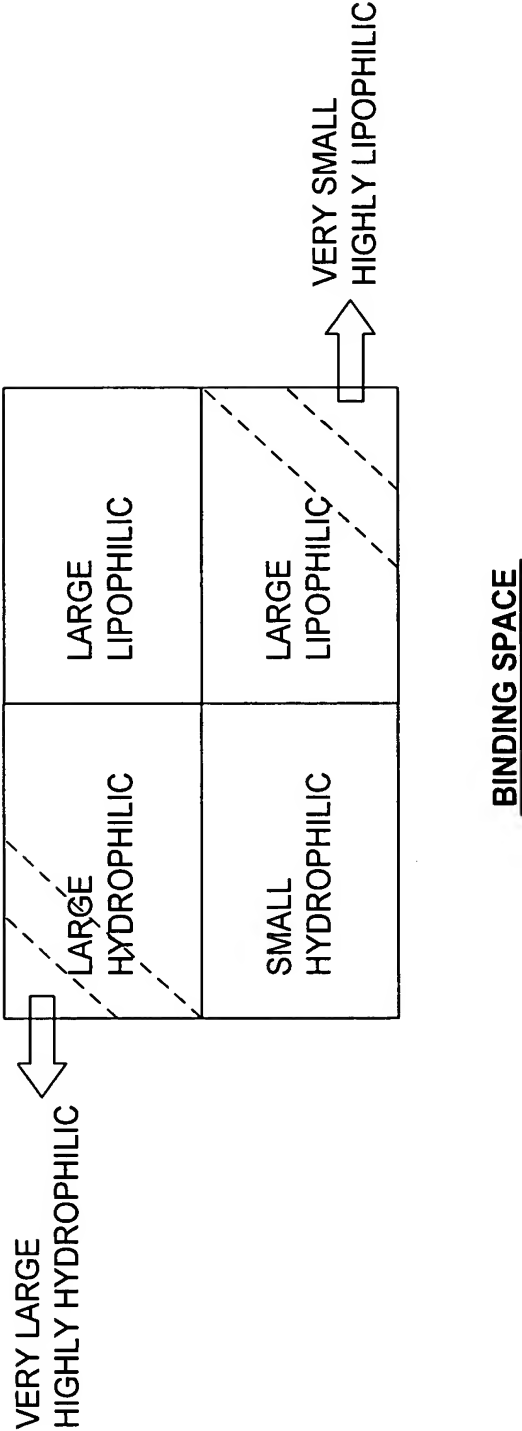
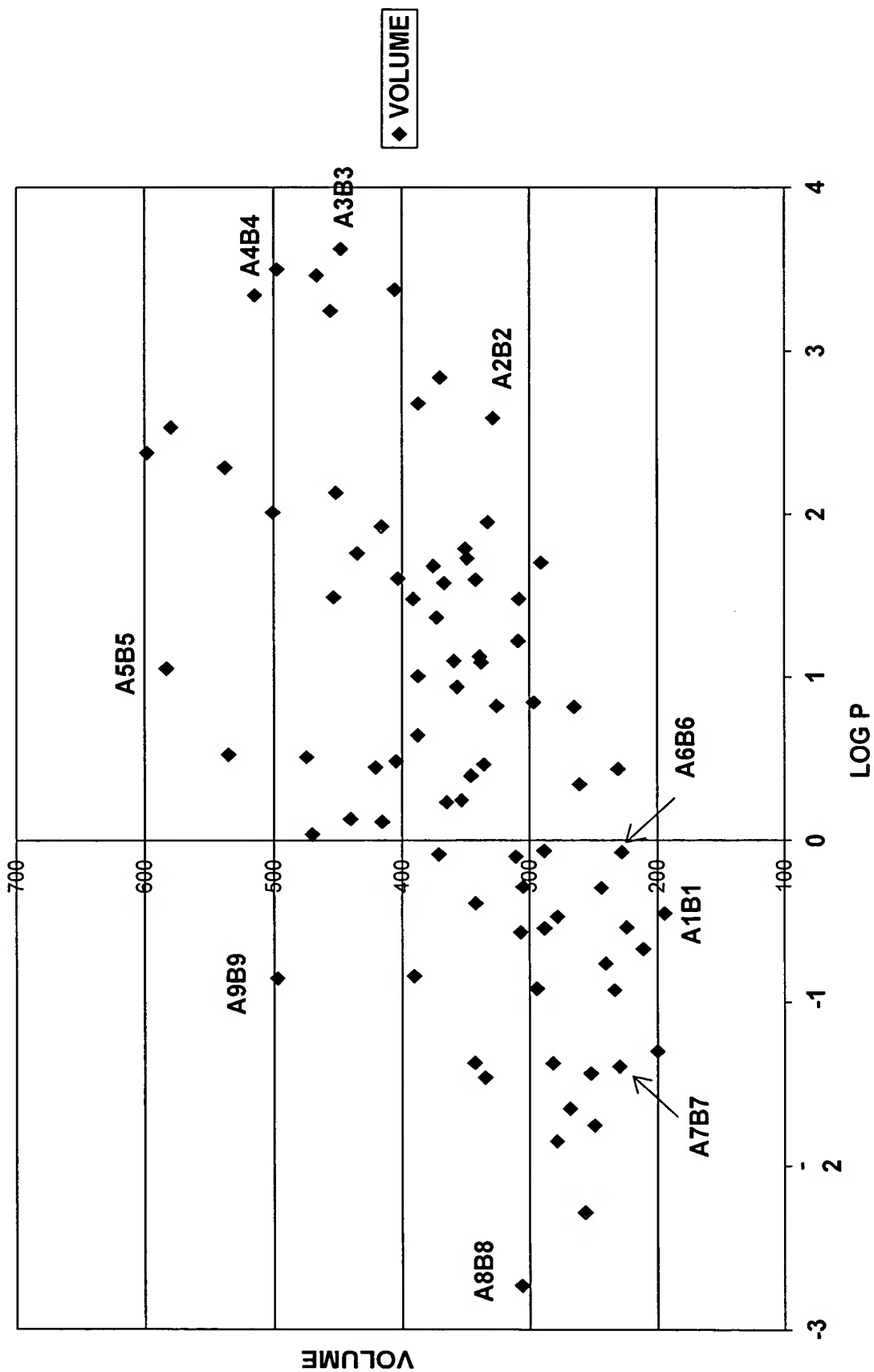


FIG.3



LOGP versus VOLUME

FIG.4



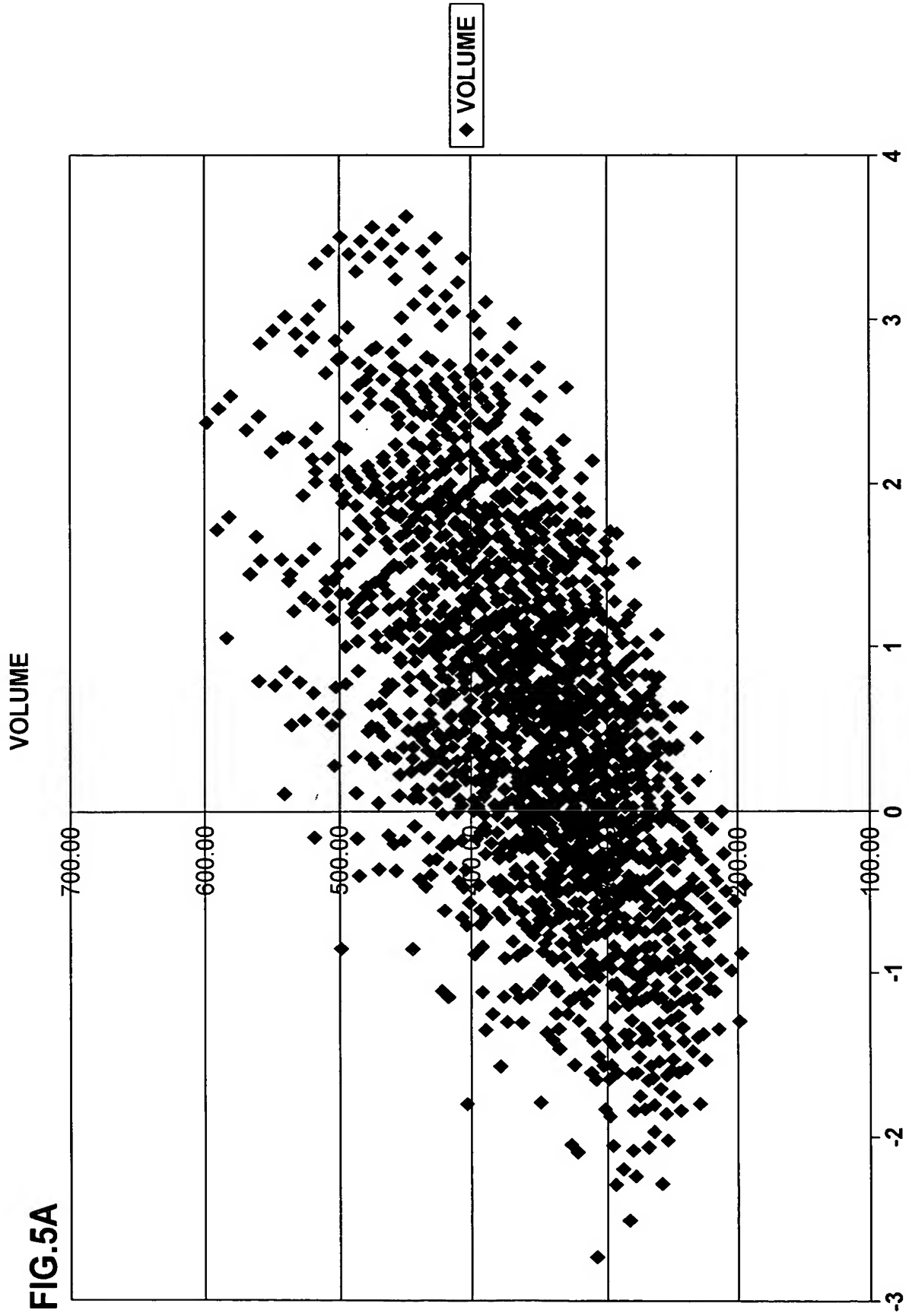
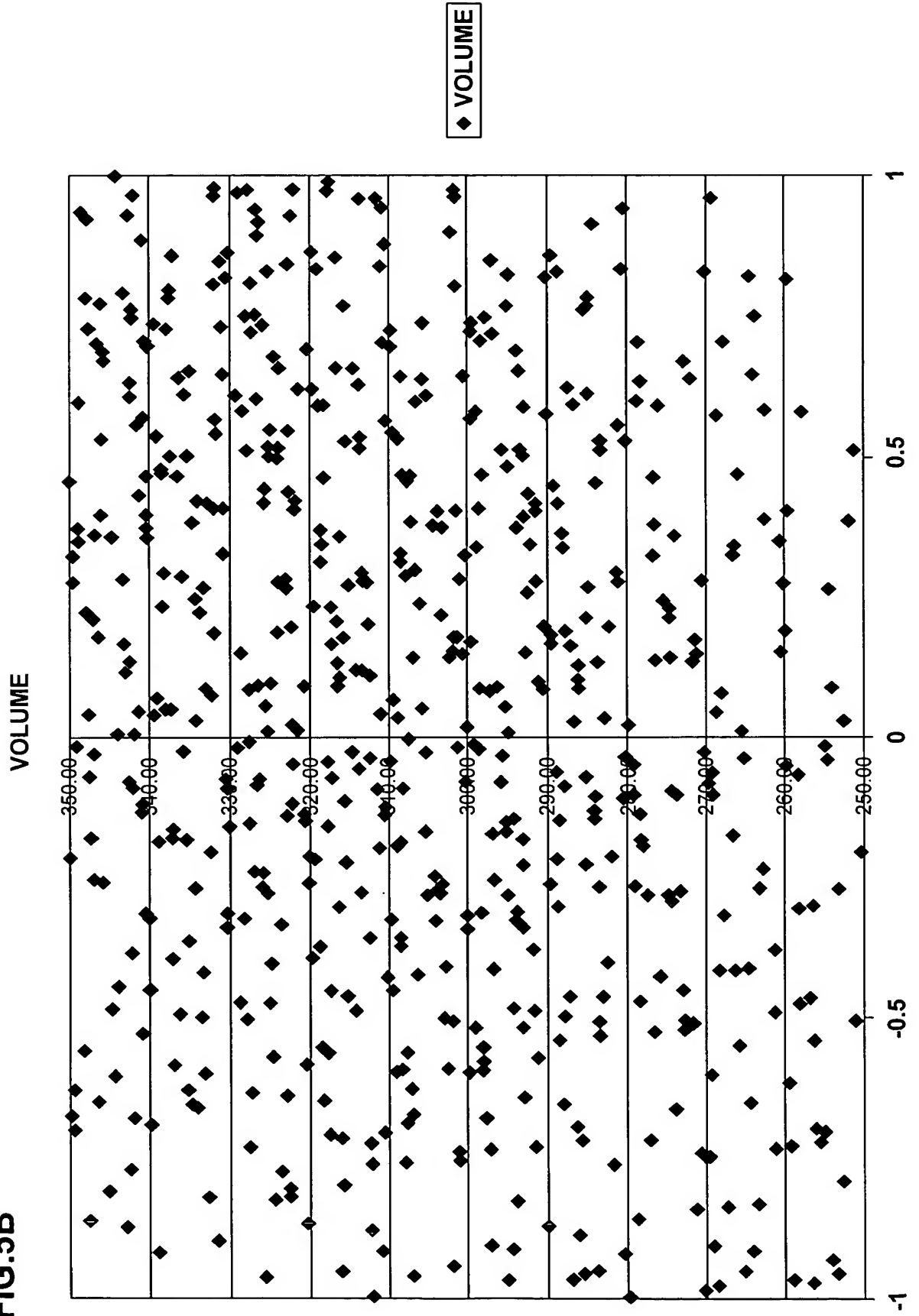


FIG.5B



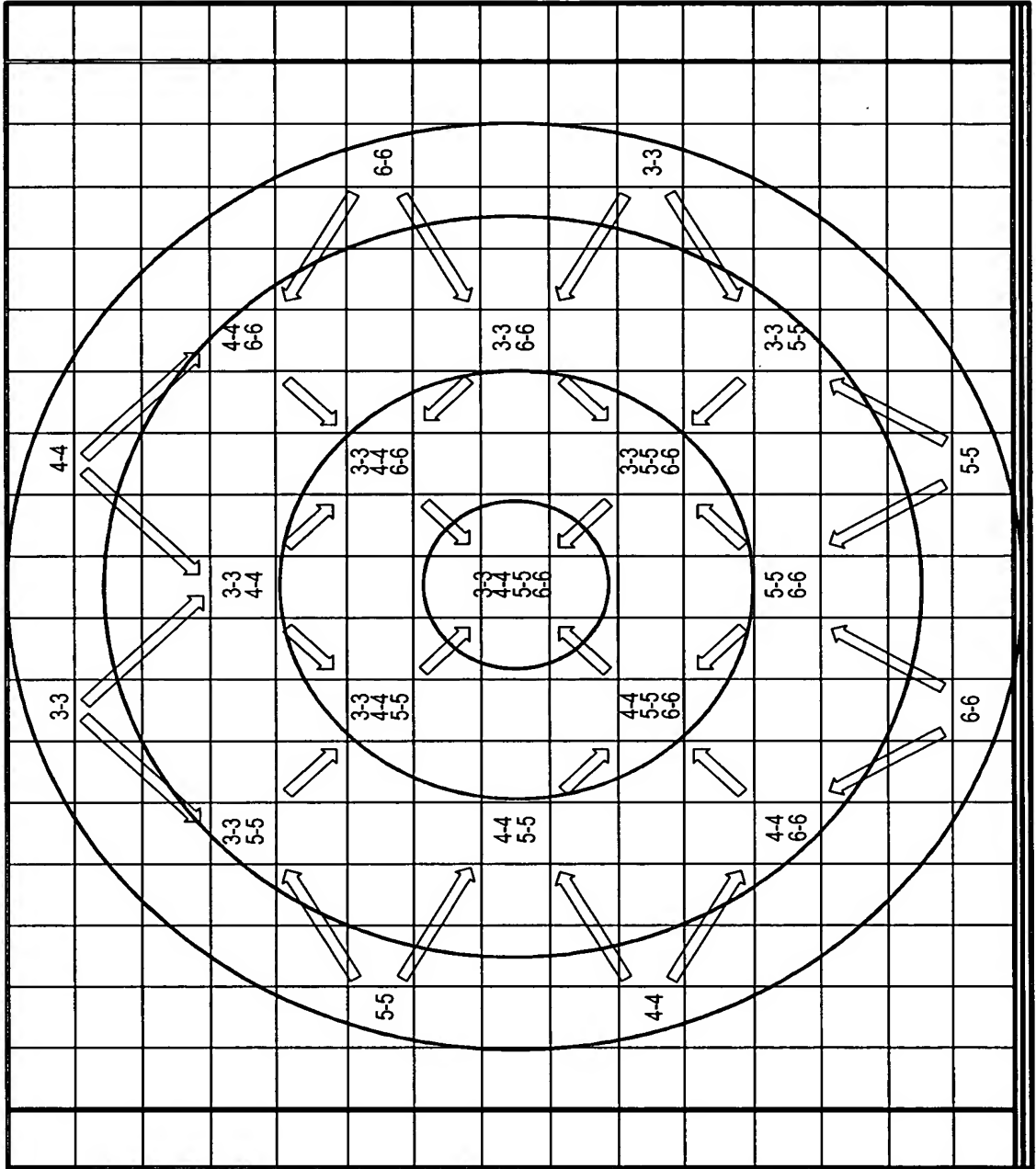


FIG.6



FIG.7B

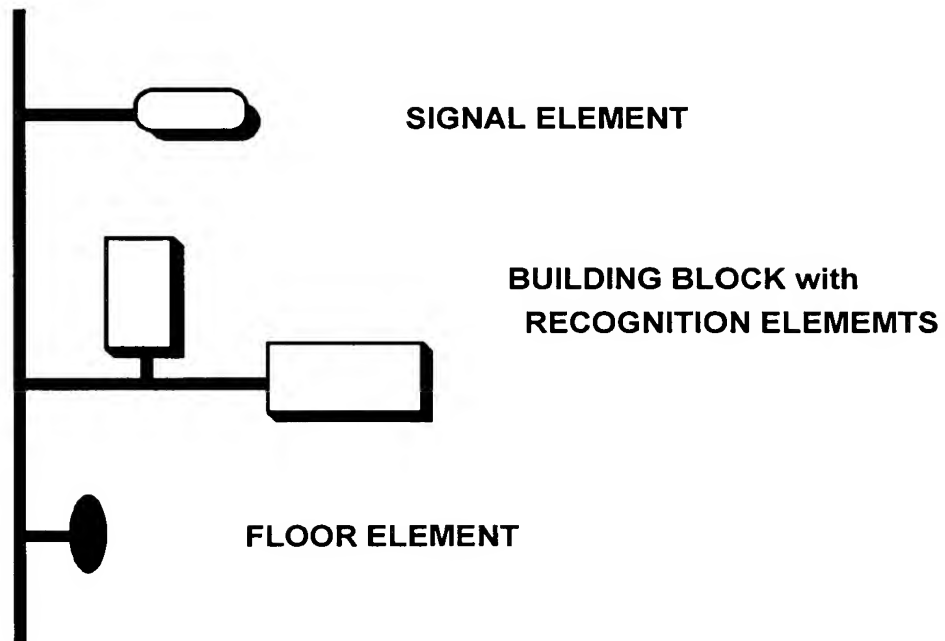


FIG.8

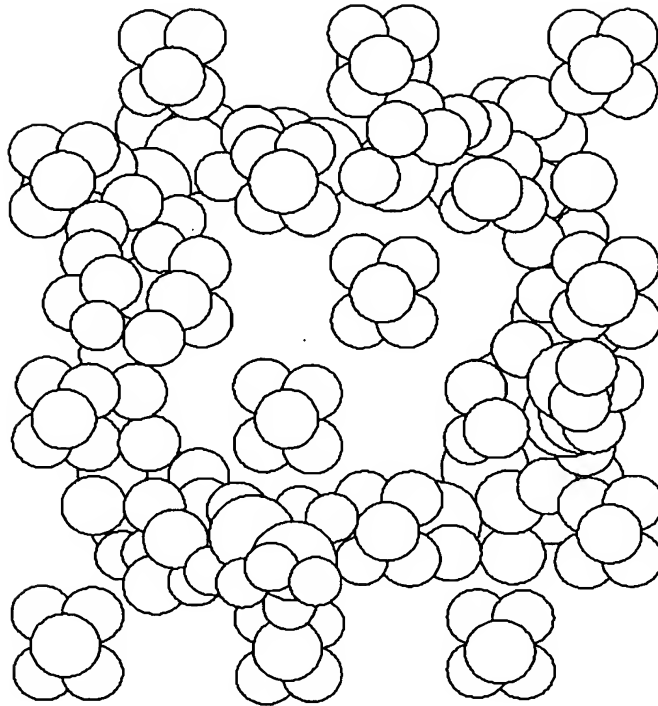


FIG.9

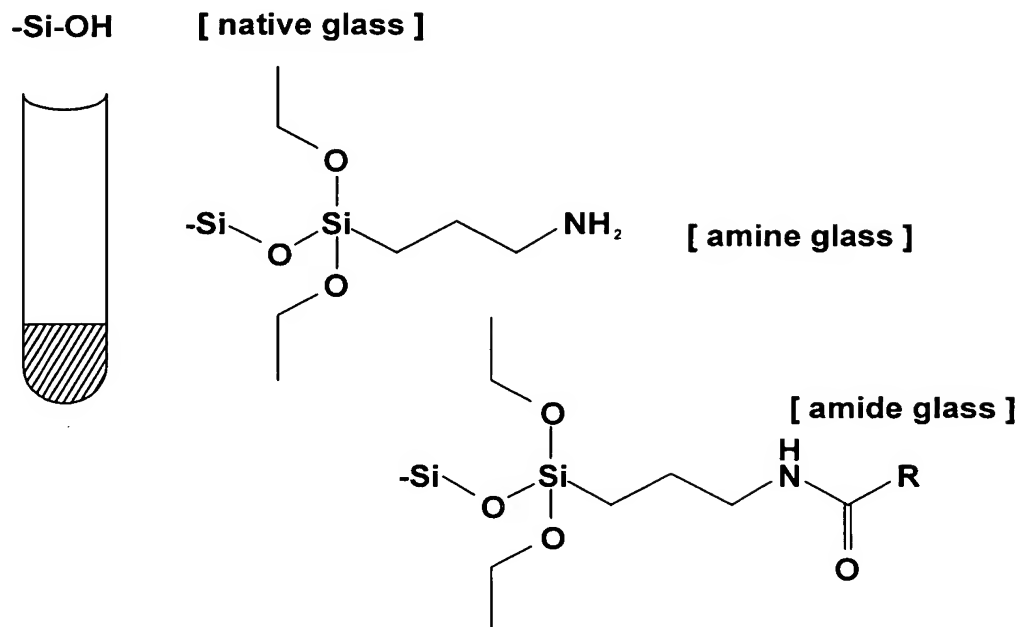


FIG.10

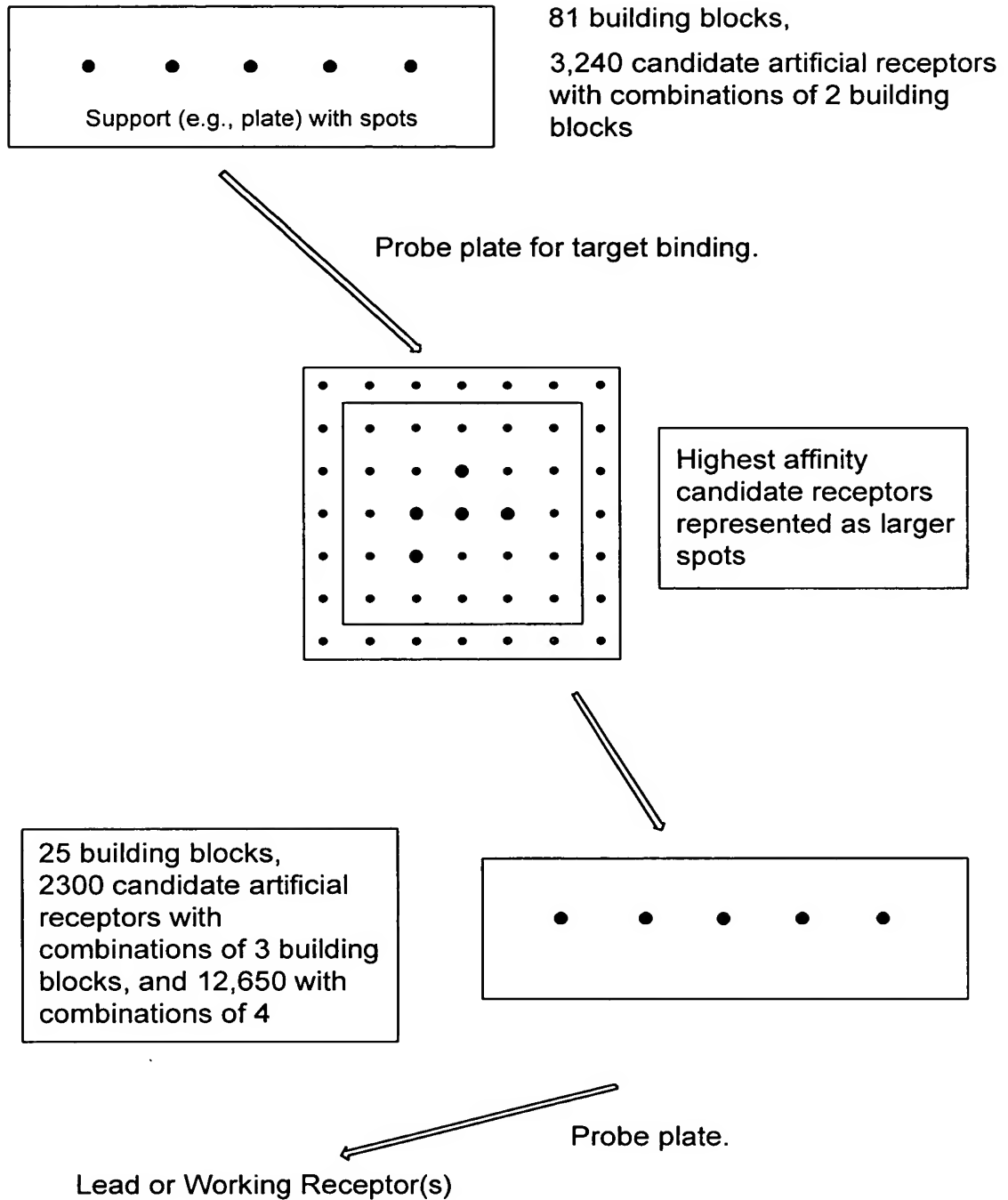


FIG.11

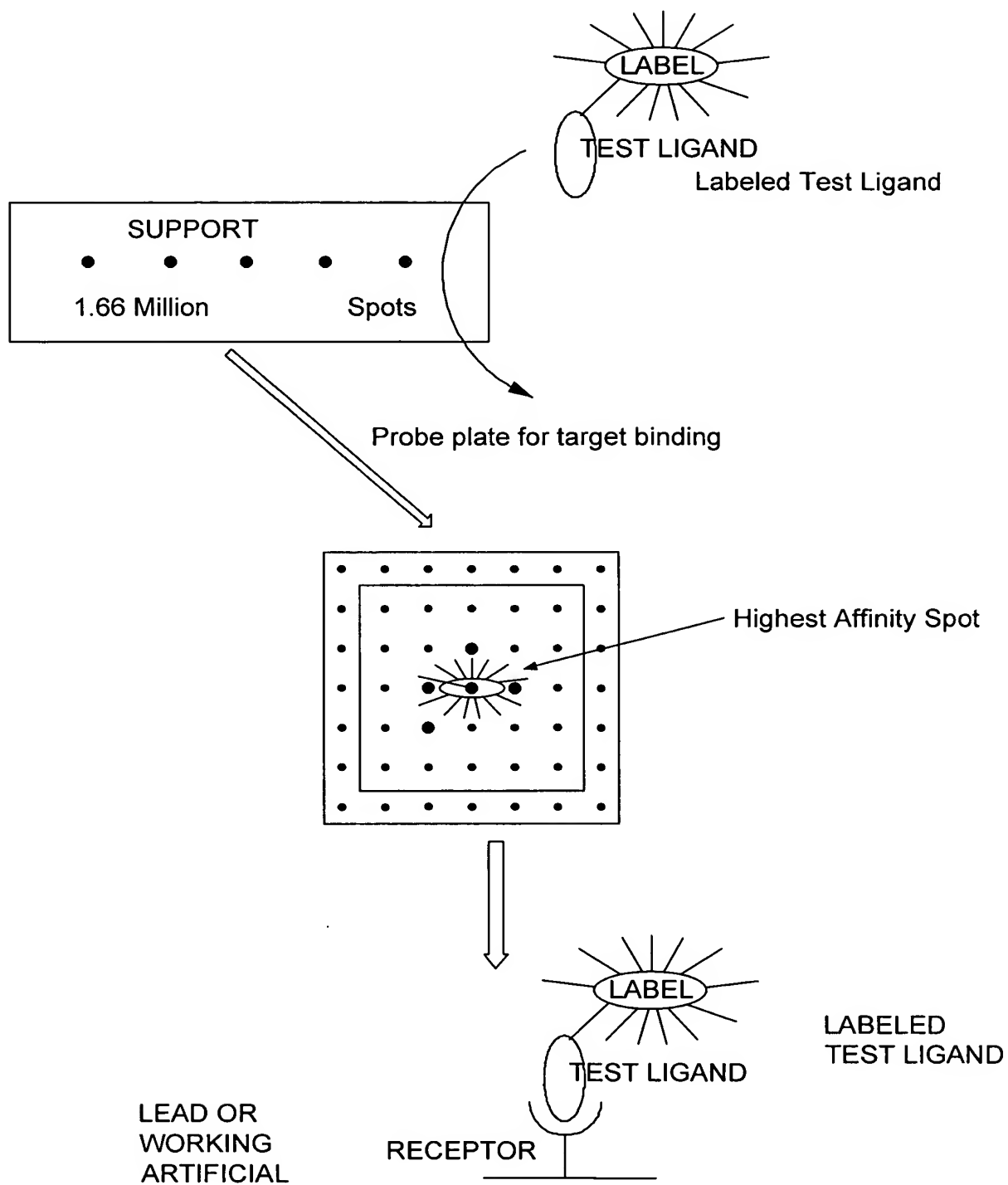
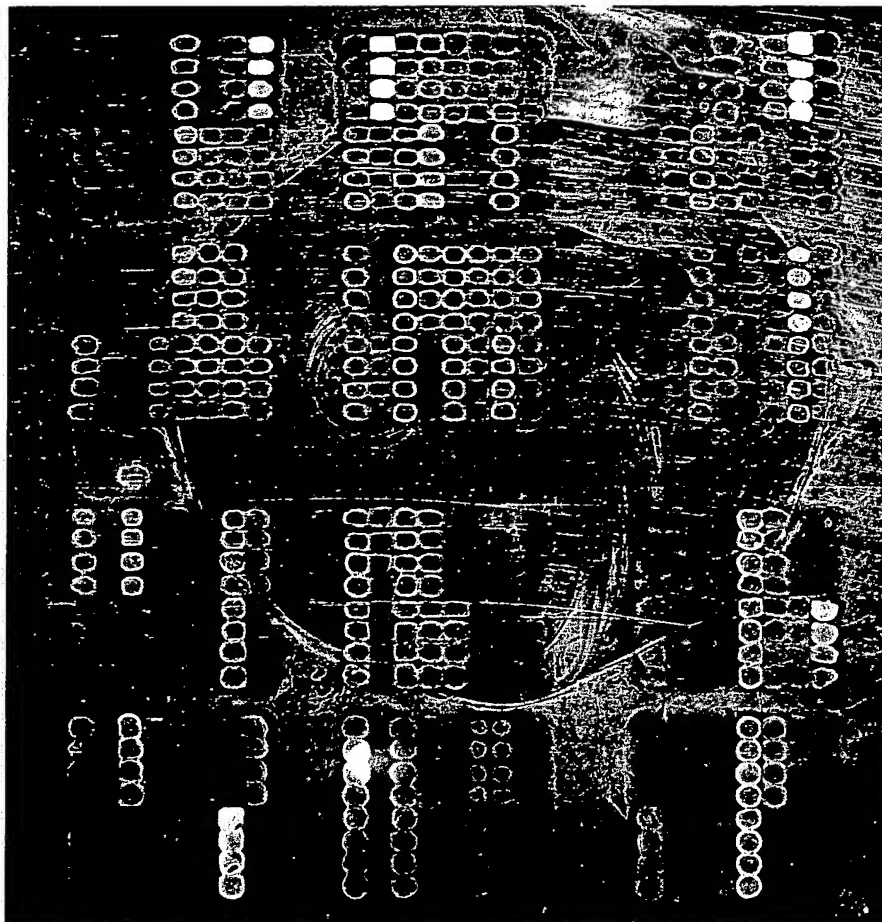
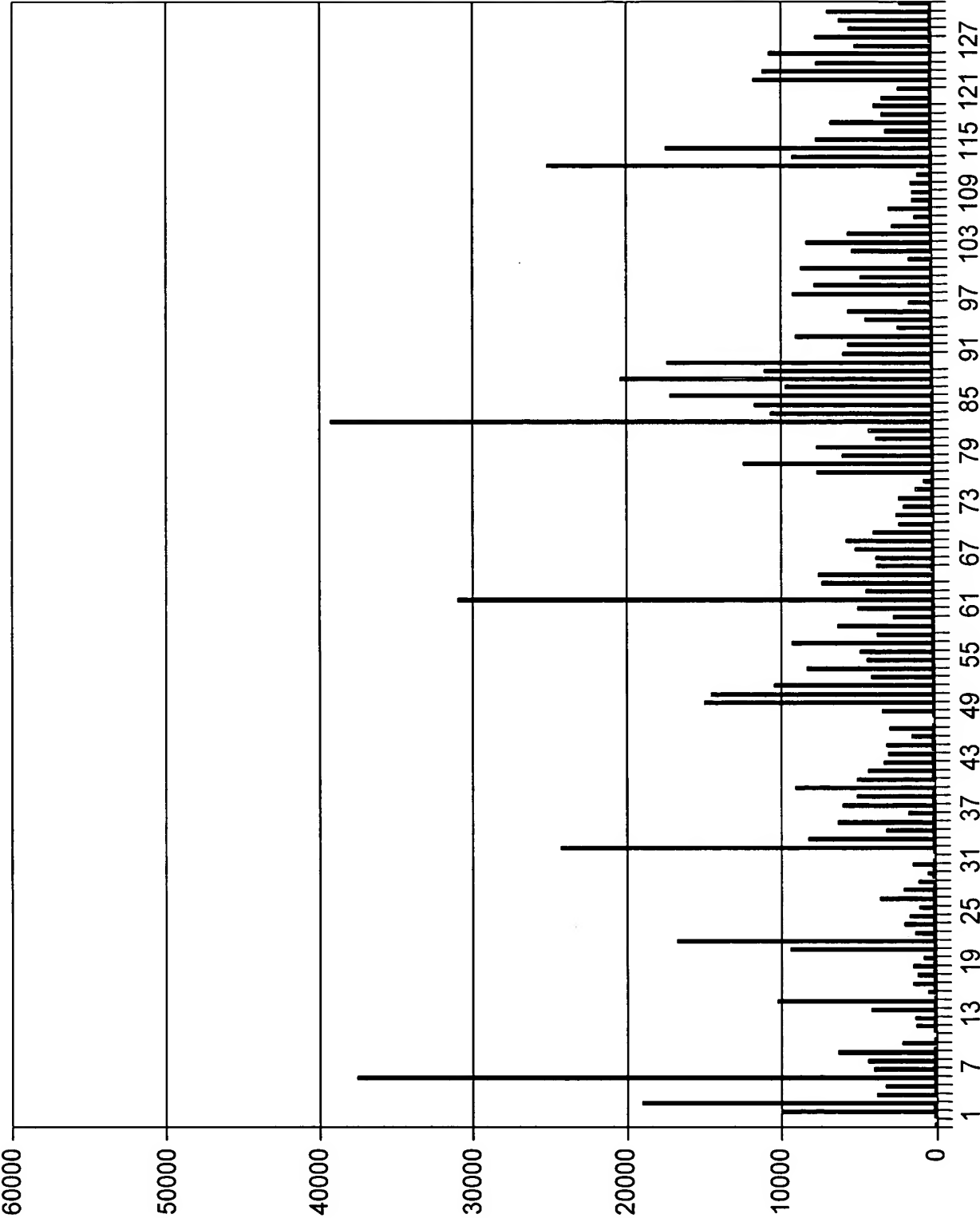
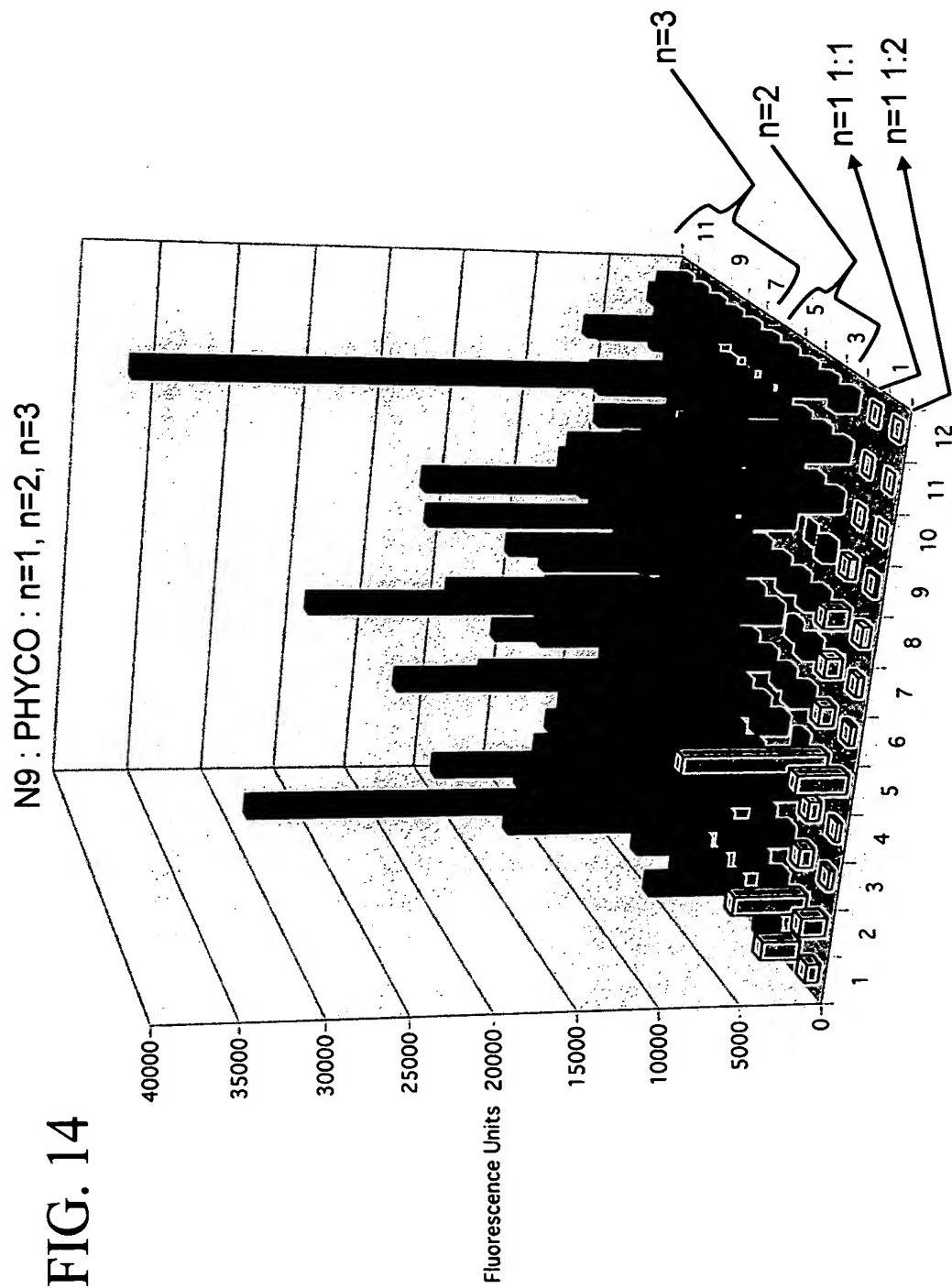


FIG. 12

Origin = 28, 140 pixels
(0.28, 1.4 mm)
Size = 2032 x 1888 pixels
(20.32 x 18.88 mm)
Scaling = 10 $\mu\text{m}/\text{pixel}$
Scanner = GenePix 4100A 01 [92896]
No averaging.
PMT Gain = 940
Laser Power = 100%
Normalization Factor = 1
Focus Position = 0







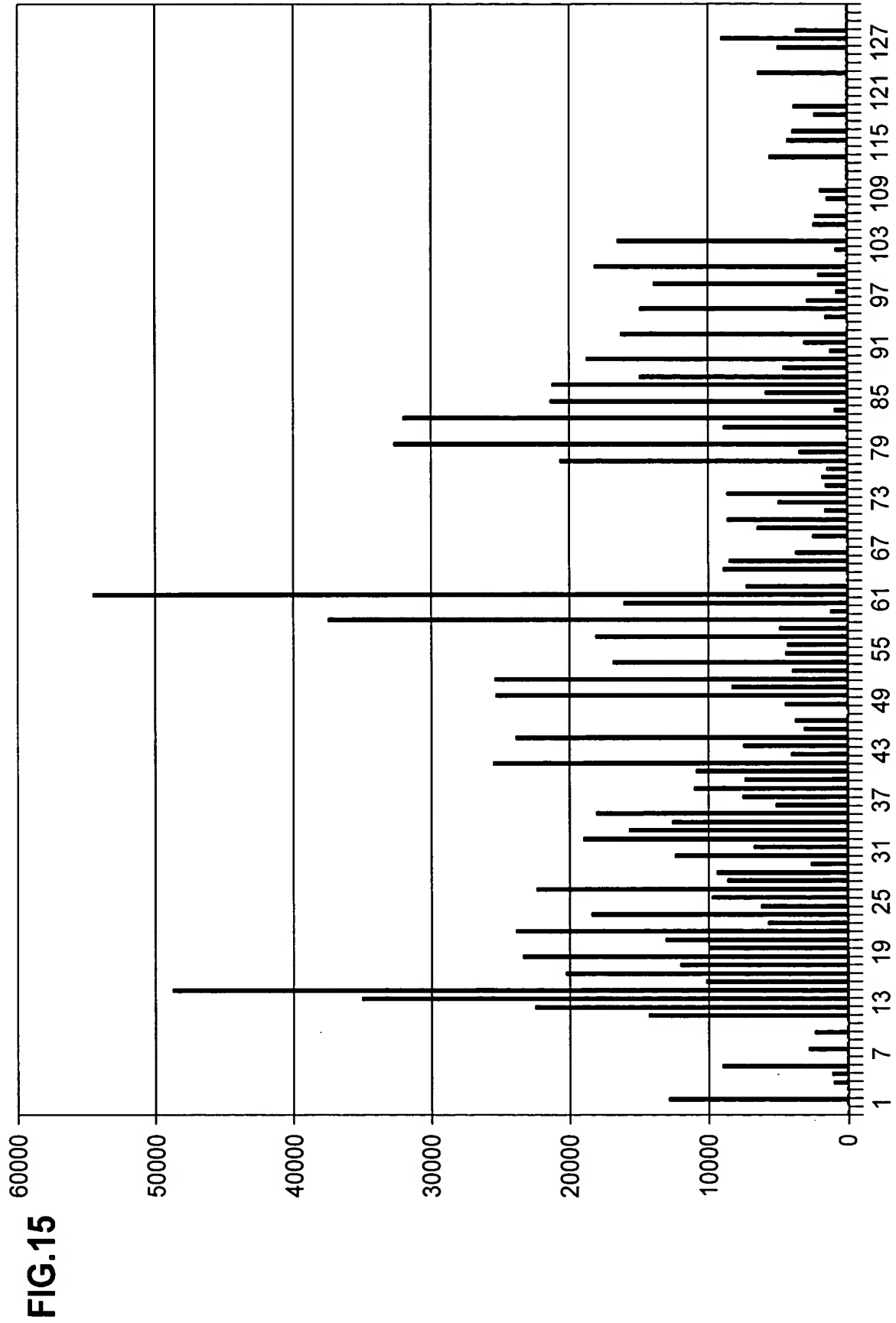
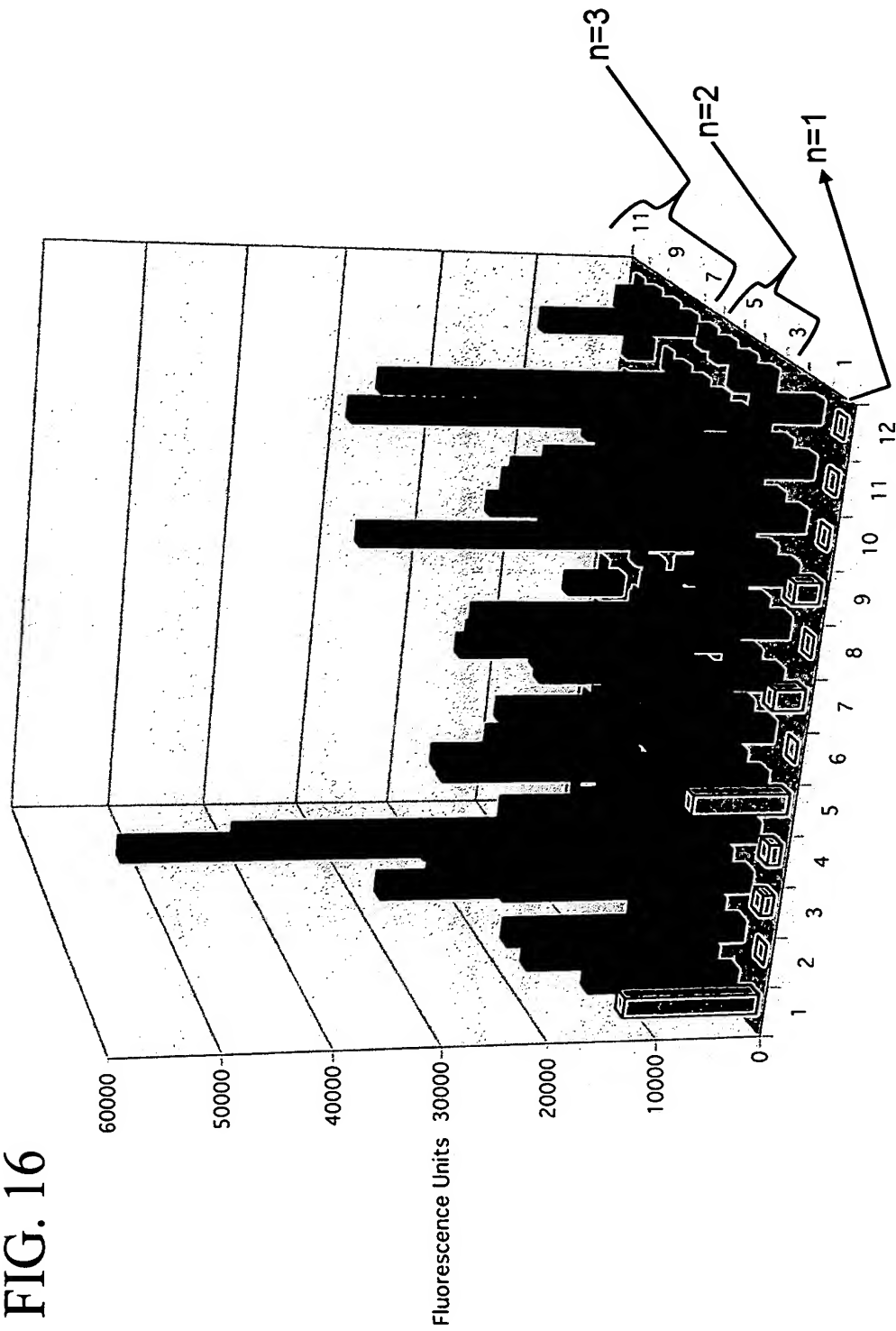
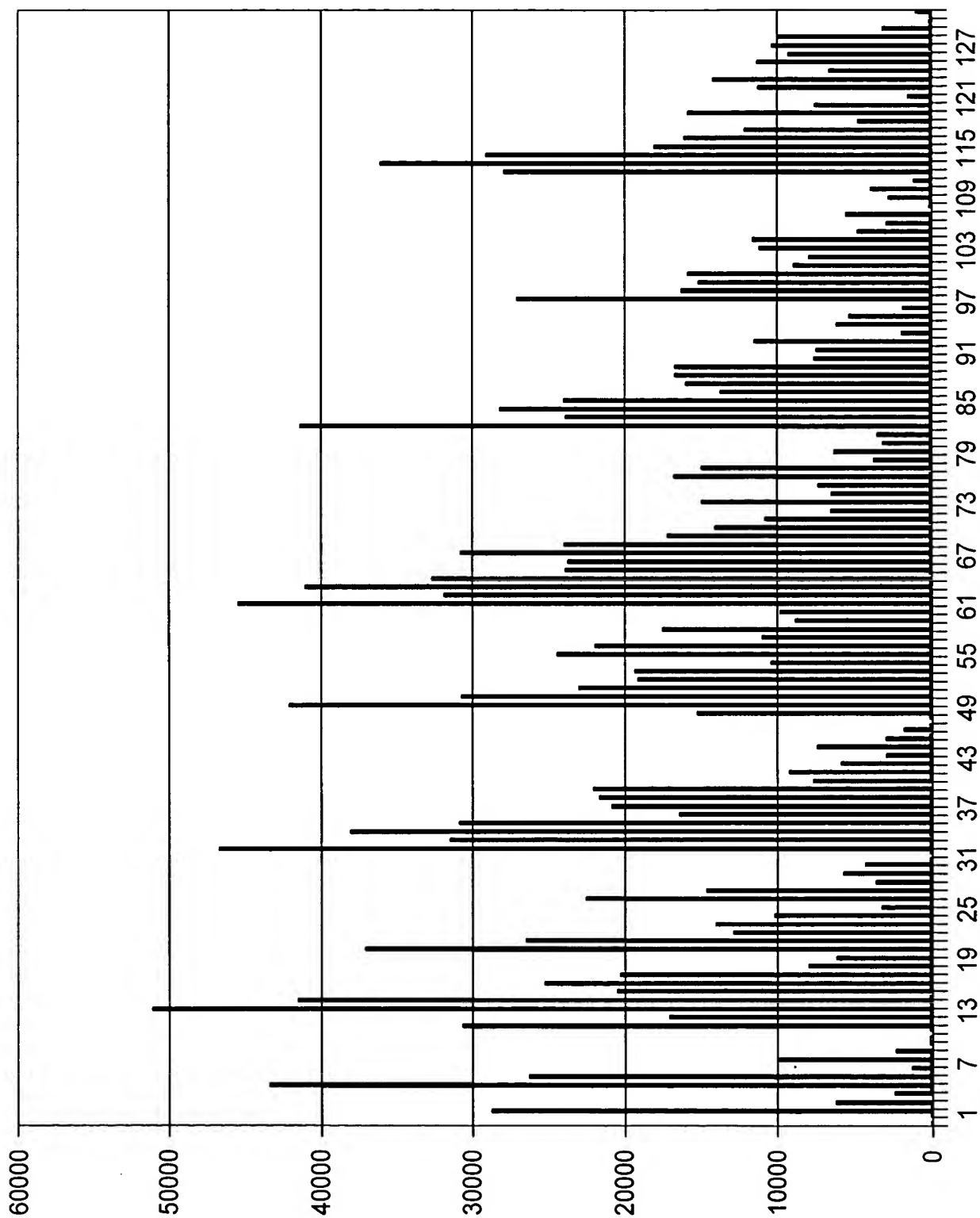


FIG. 16





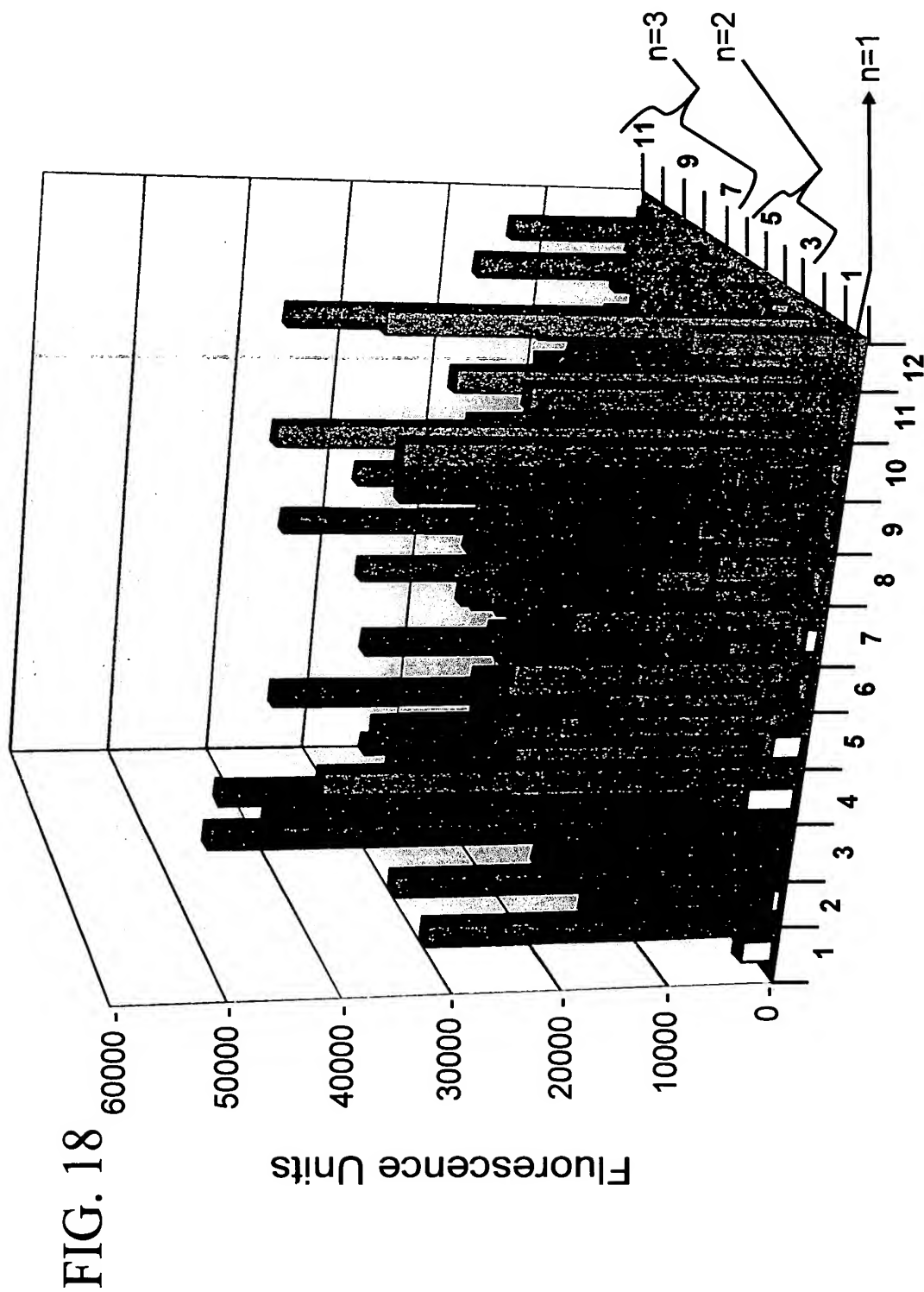
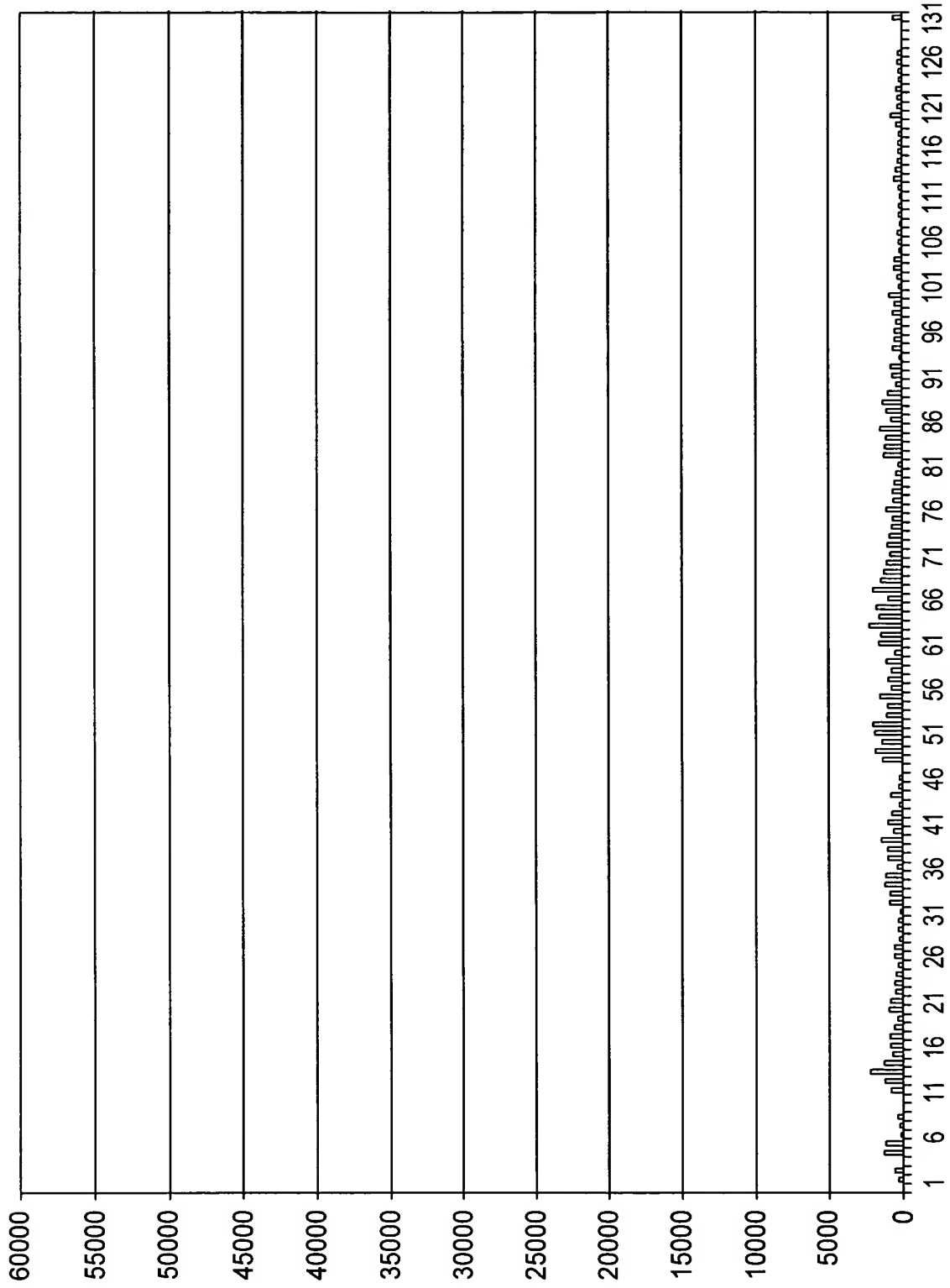
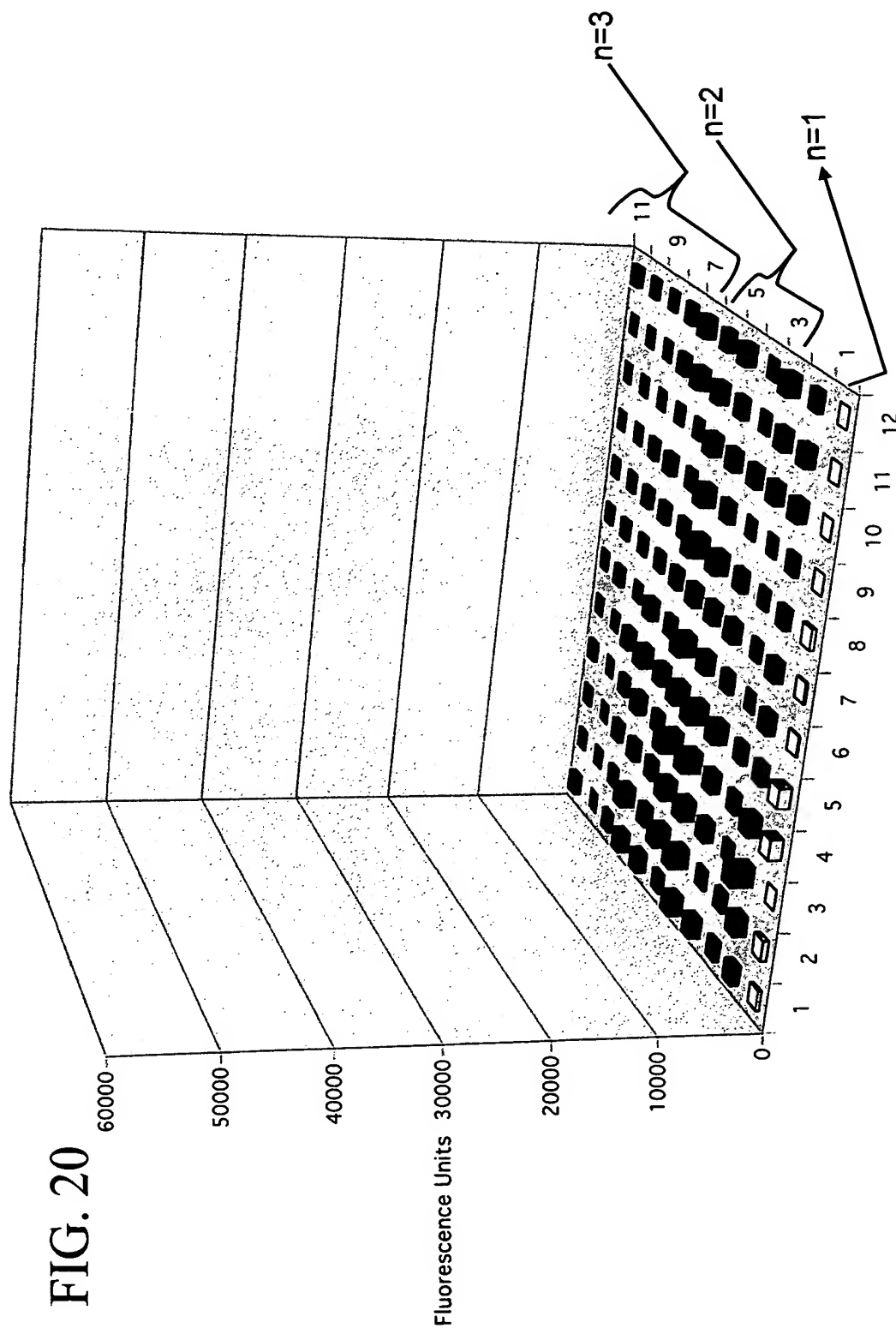


FIG.19





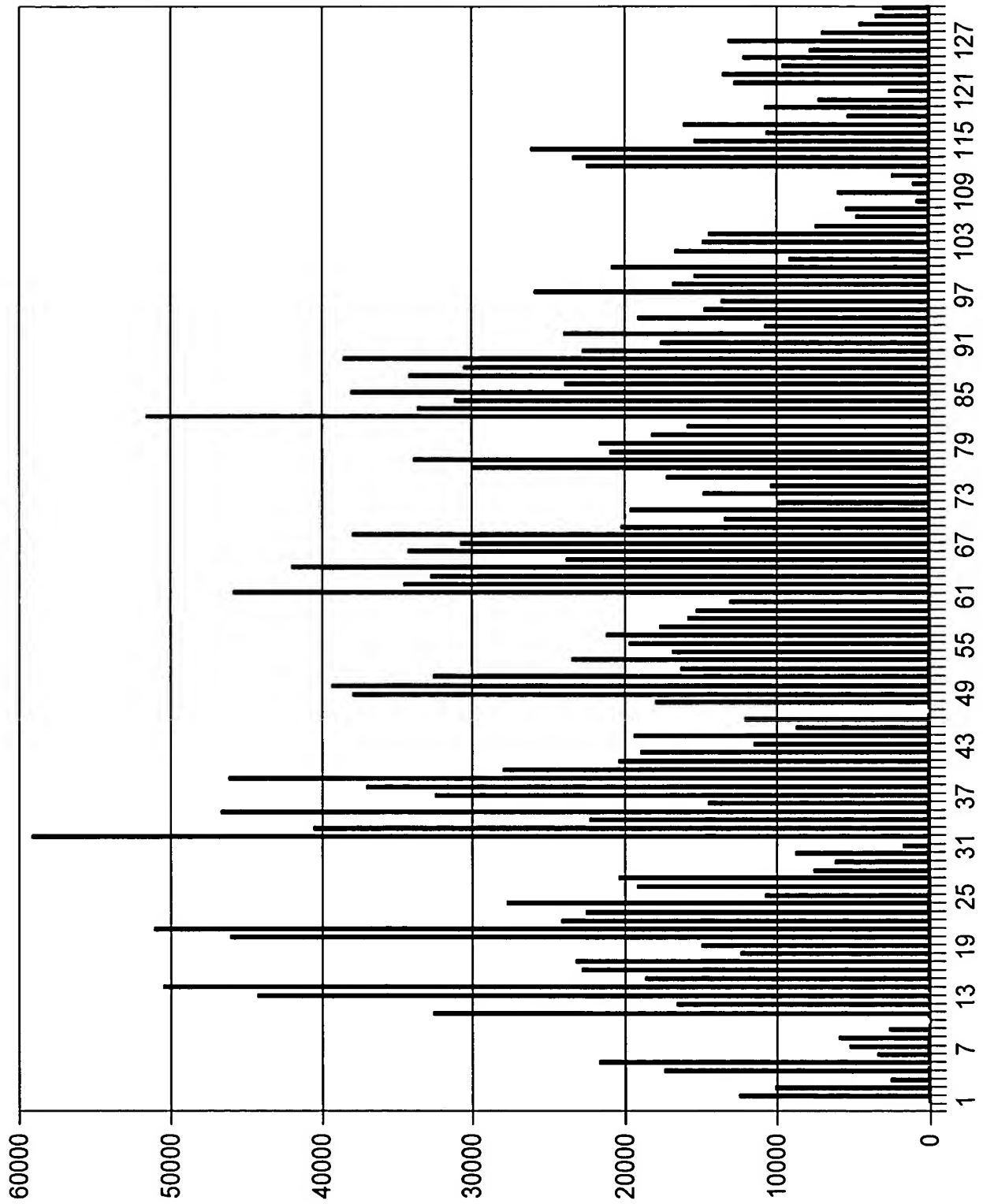
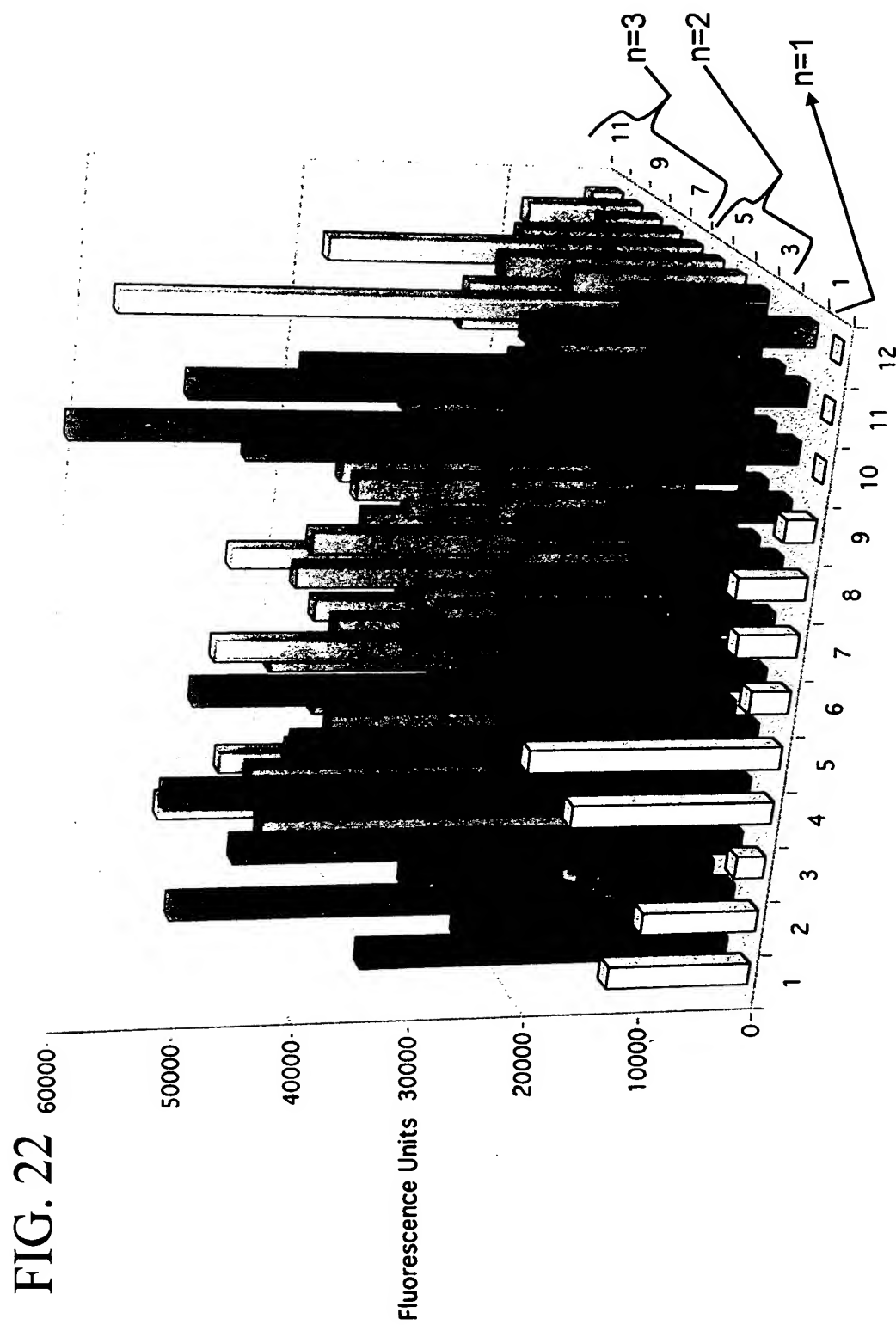


FIG.21



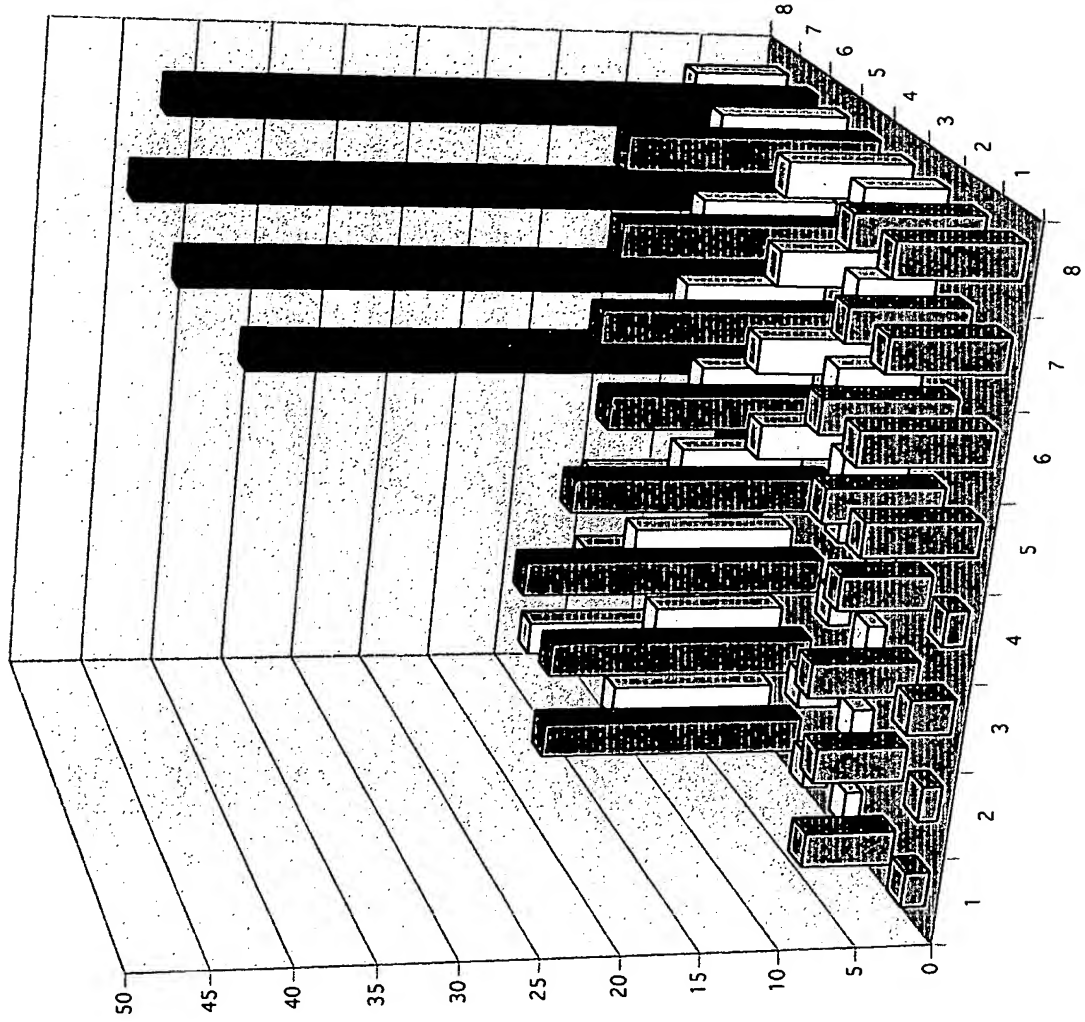


FIG. 23

FIG. 24

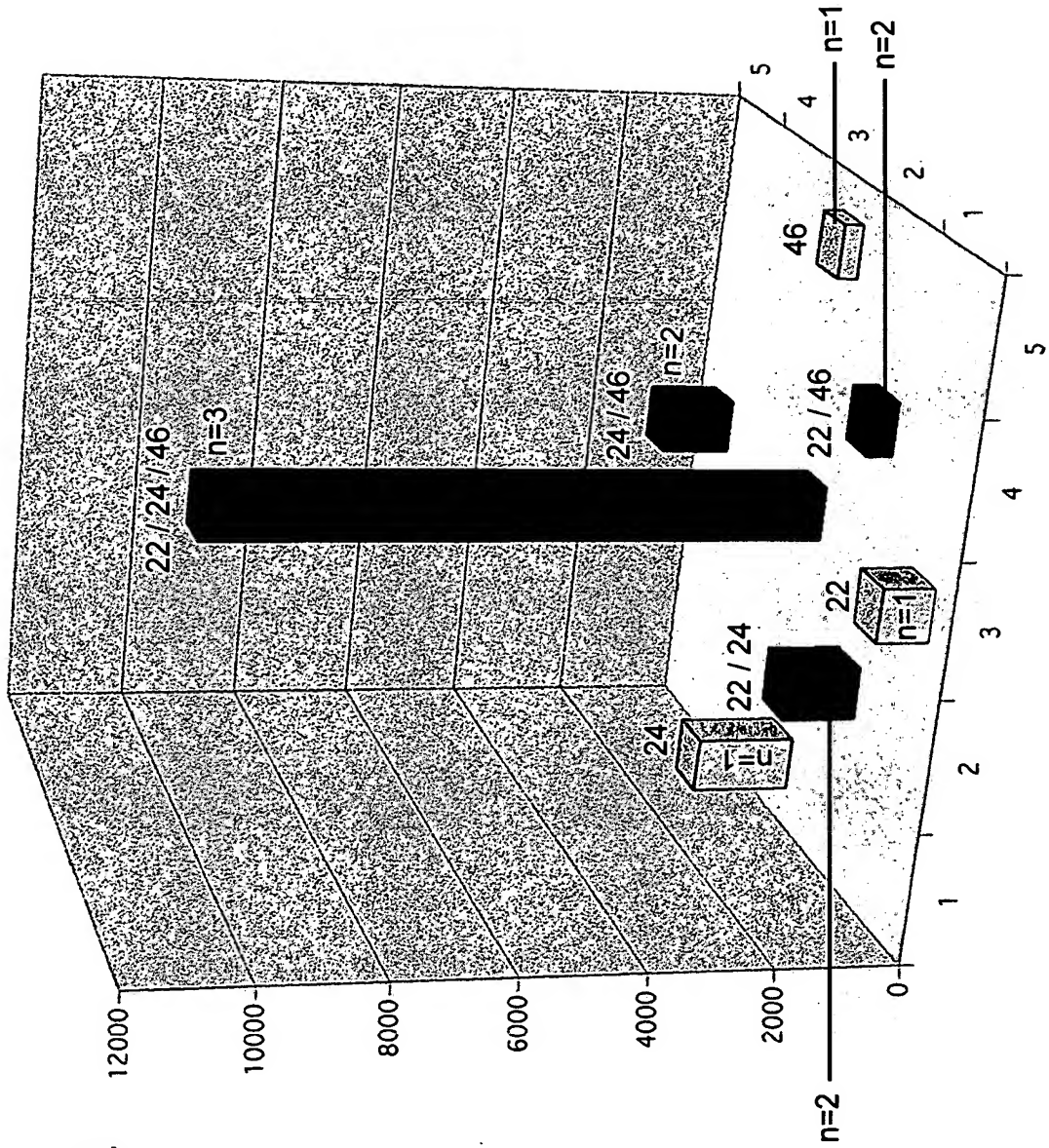
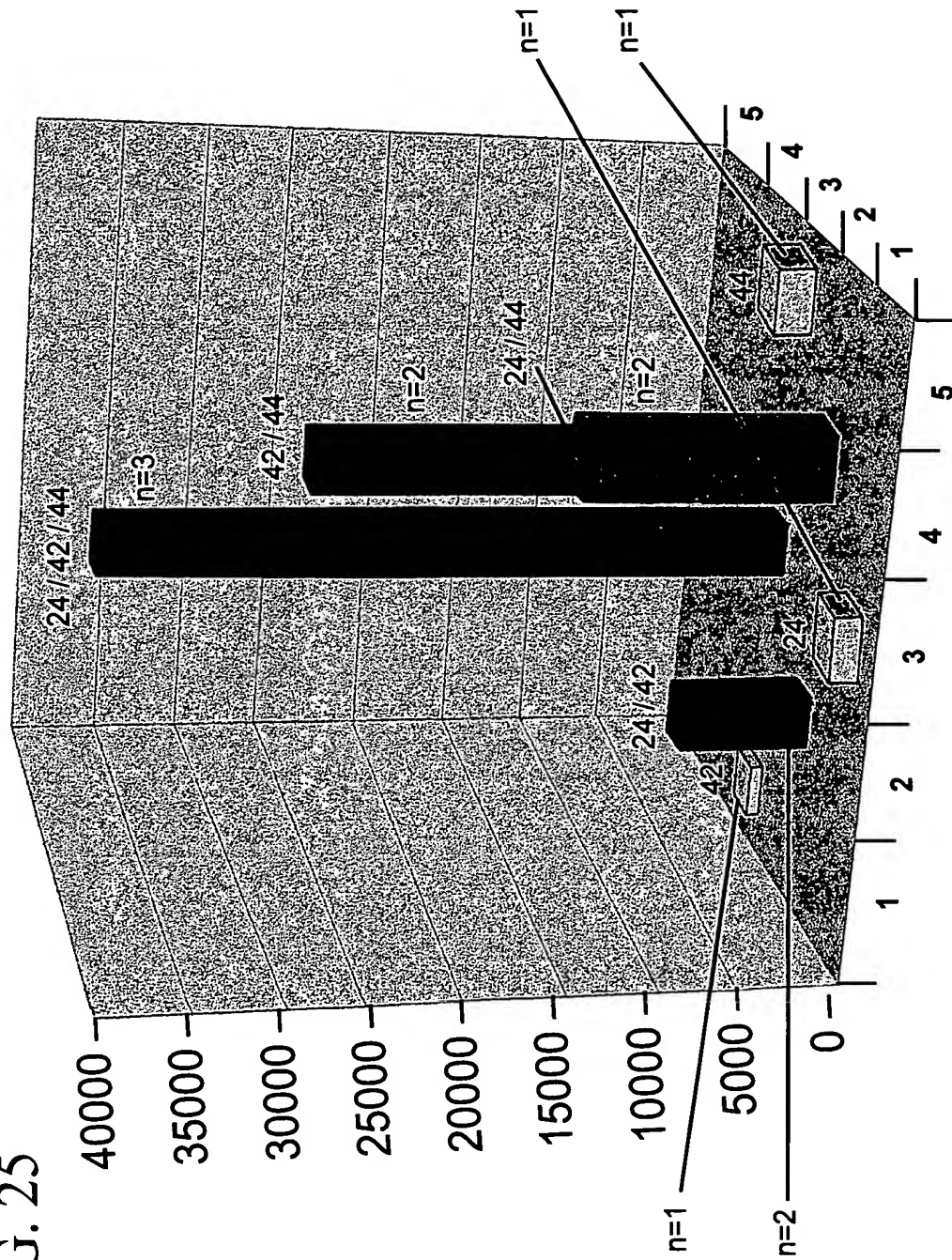


FIG. 25



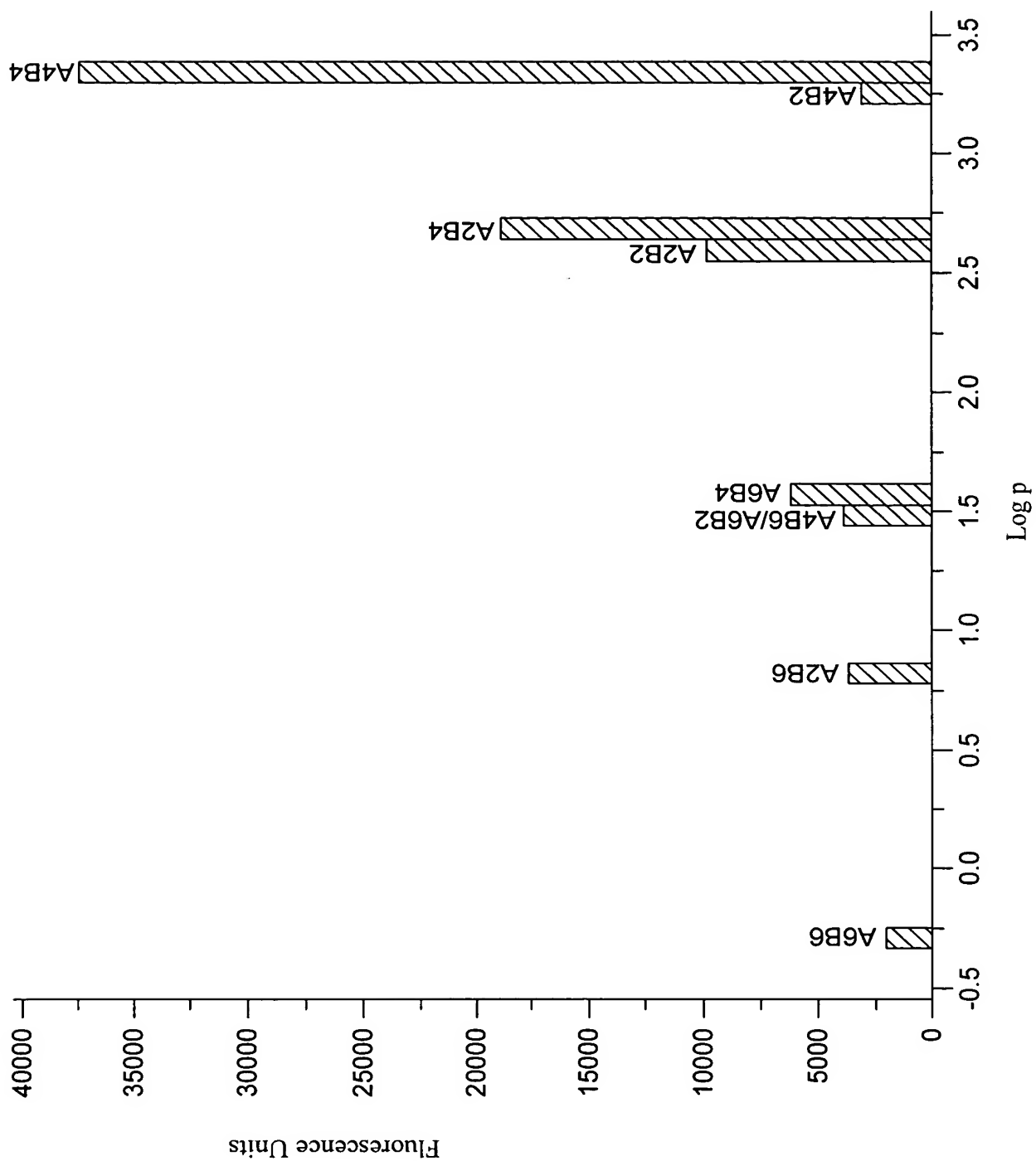


FIG.26

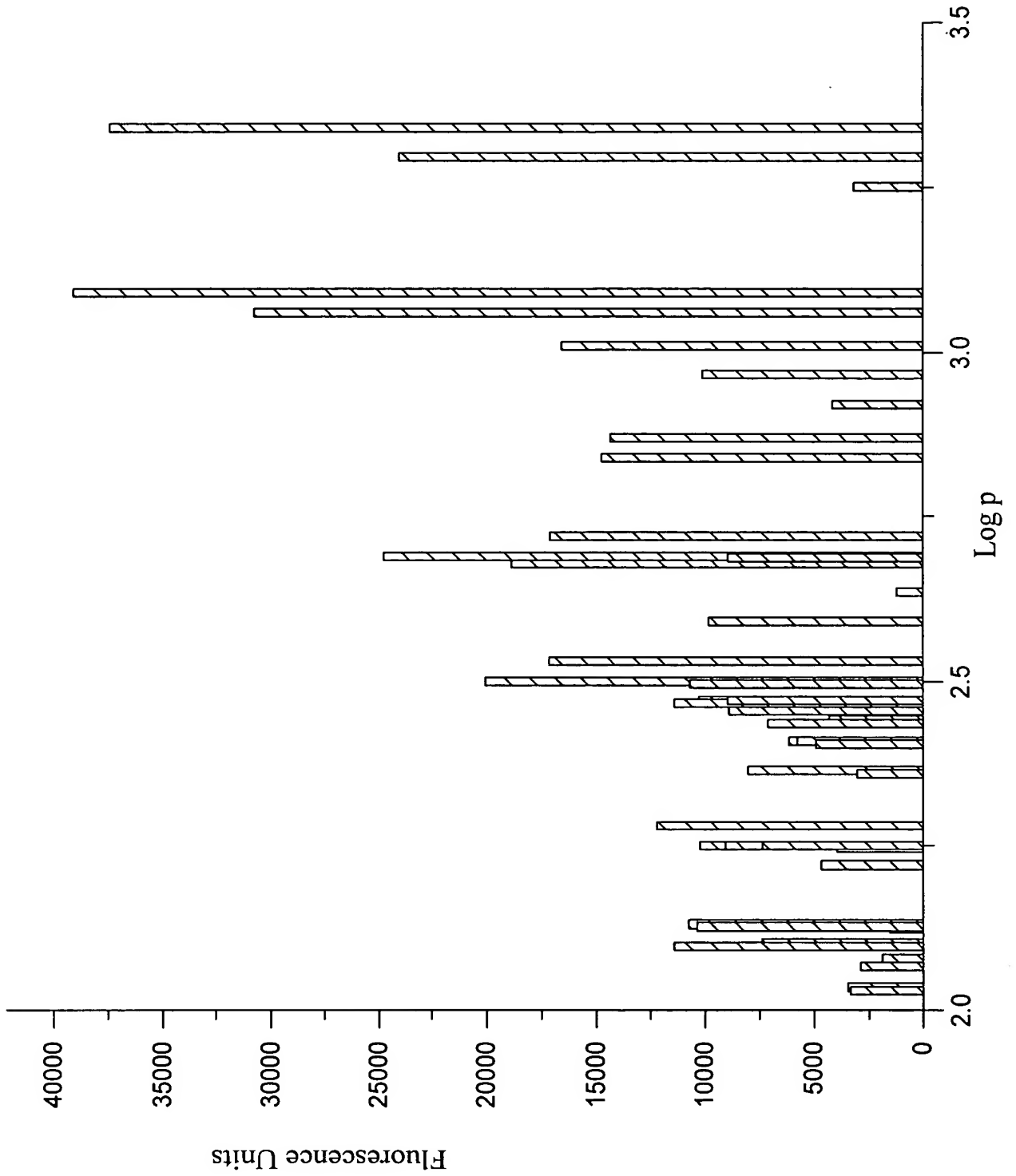


FIG.27

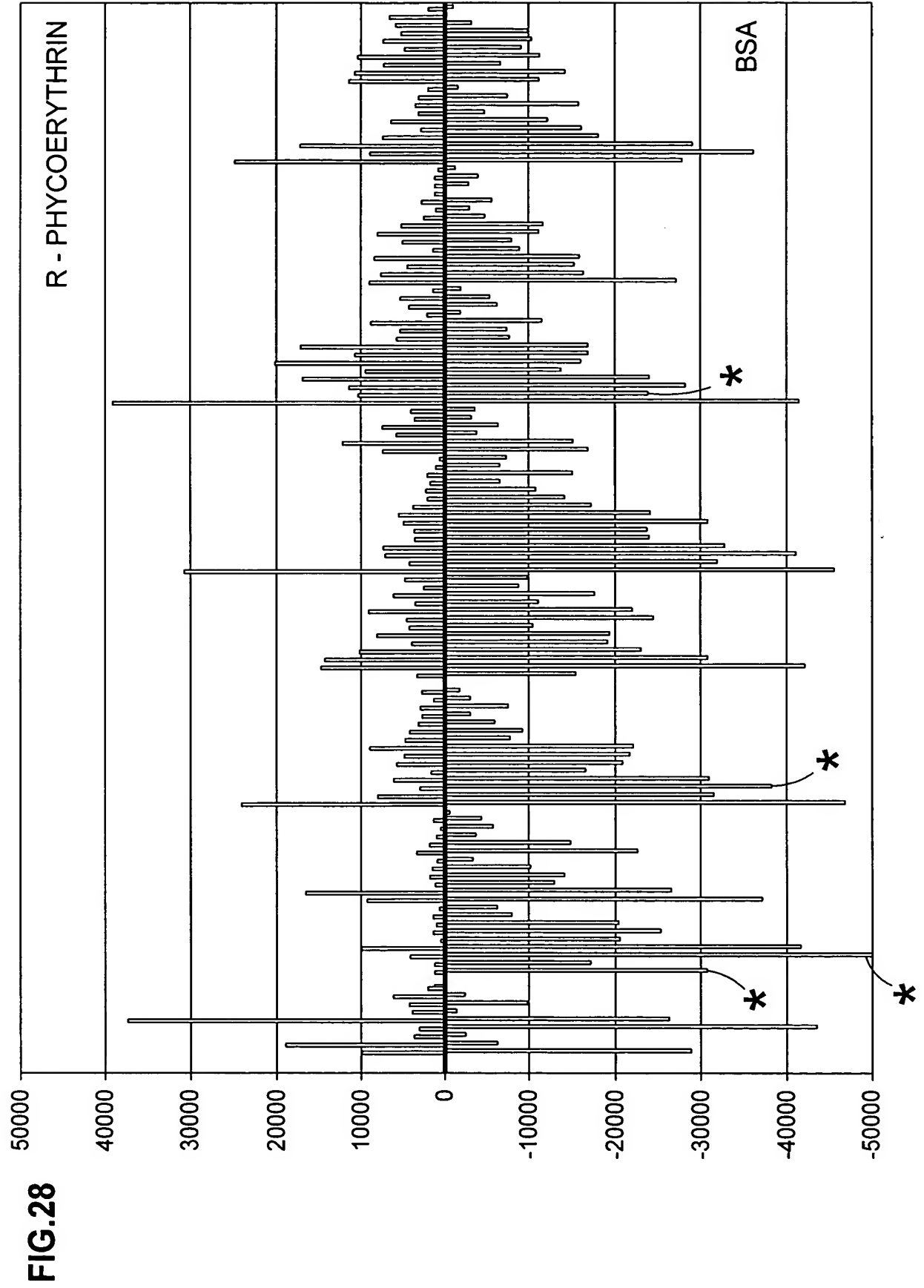
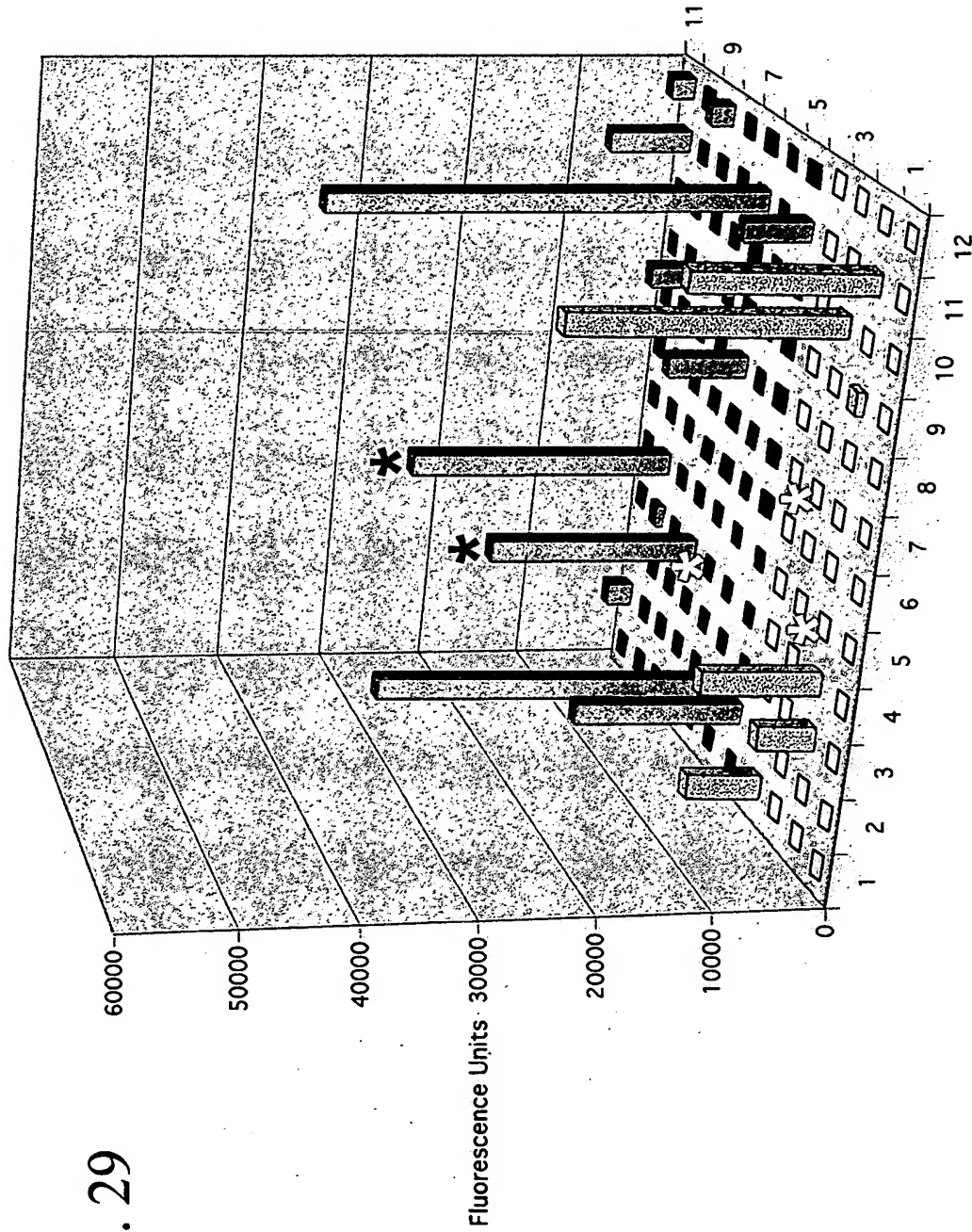


FIG. 29



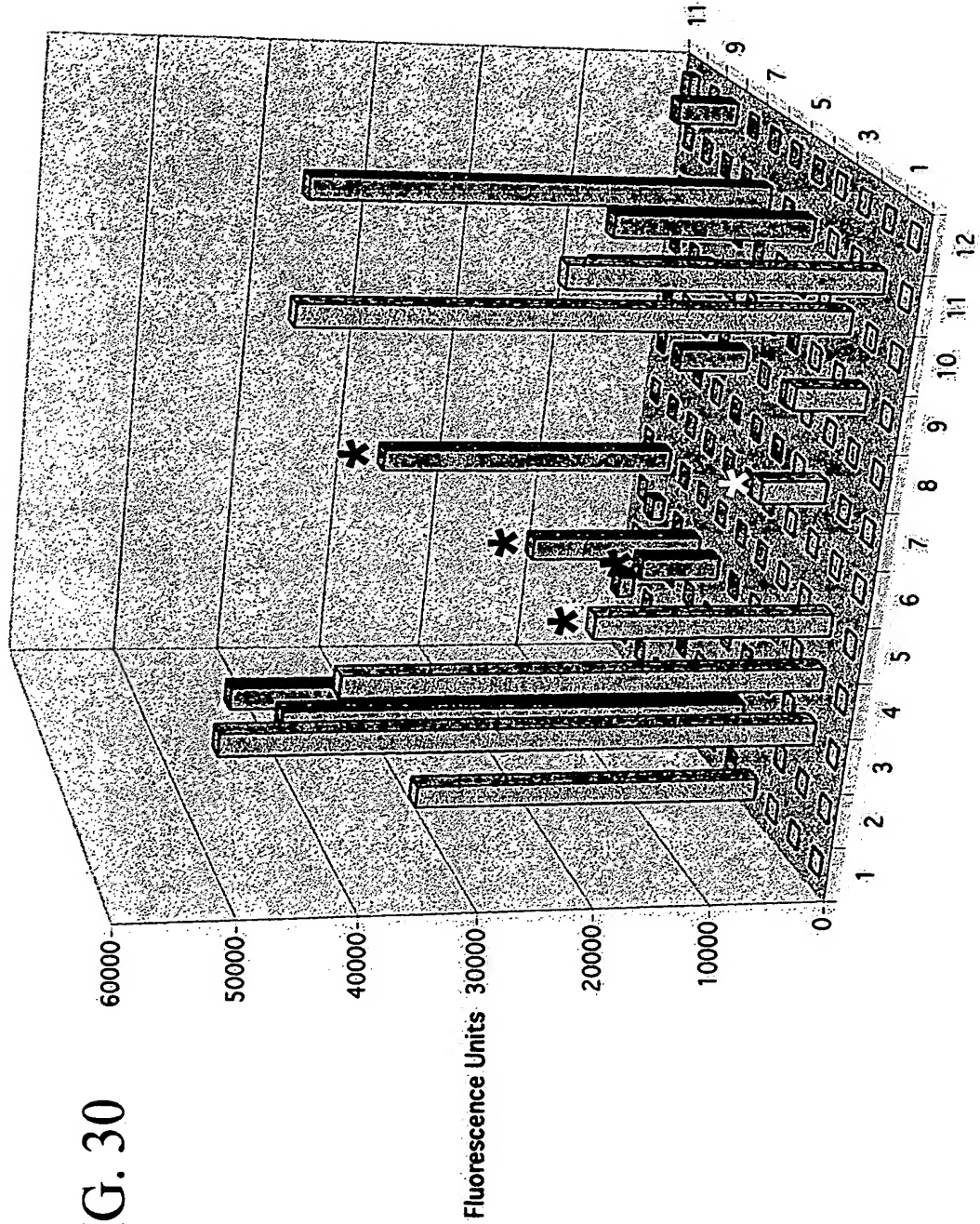


FIG. 30

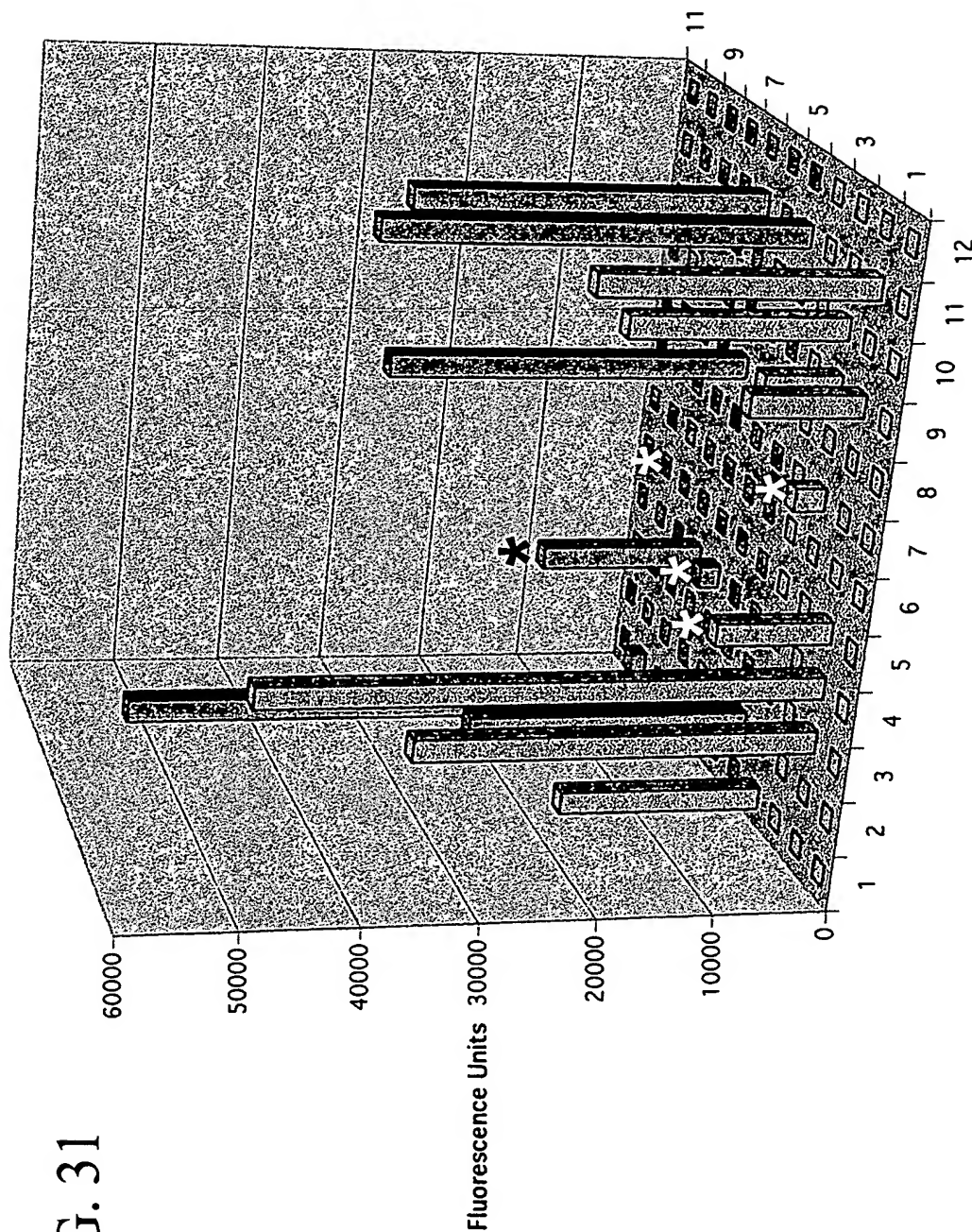


FIG. 32

Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1368 pixels
(21.8 x 13.68 mm)
Scaling = 10 μ m/pixel
Scanner = GenePix 4100A 01 [92896]
No averaging.
PMT Gain = 600
Laser Power = 100%
Normalization Factor = 1
Filter = 670DF40
Focus Position = 0



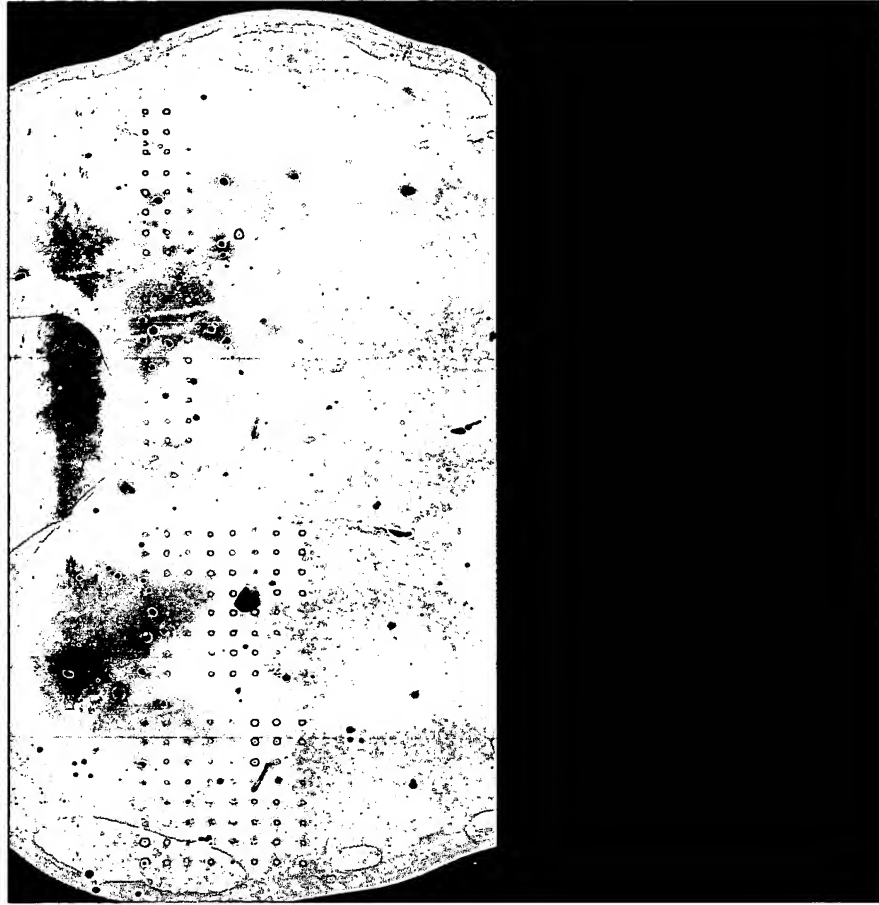


FIG. 33

Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1068 pixels
(21.8 x 10.68 mm)
Scaling = 10 μ m/pixel
Scanner = GenePix 4100A 01 [92896]
No averaging.
PMT Gain = 600
Laser Power = 100%
Normalization Factor = 1
Filter = 670DF40
Focus Position = 0

FIG. 34

Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1368 pixels
(21.8 x 13.68 mm)
Scaling = 10 μ m/pixel
Scanner = GenePix 4100A 01 [92896]
No averaging.
PMT Gain = 600
Laser Power = 100%
Normalization Factor = 1
Filter = 670DF40
Focus Position = 0

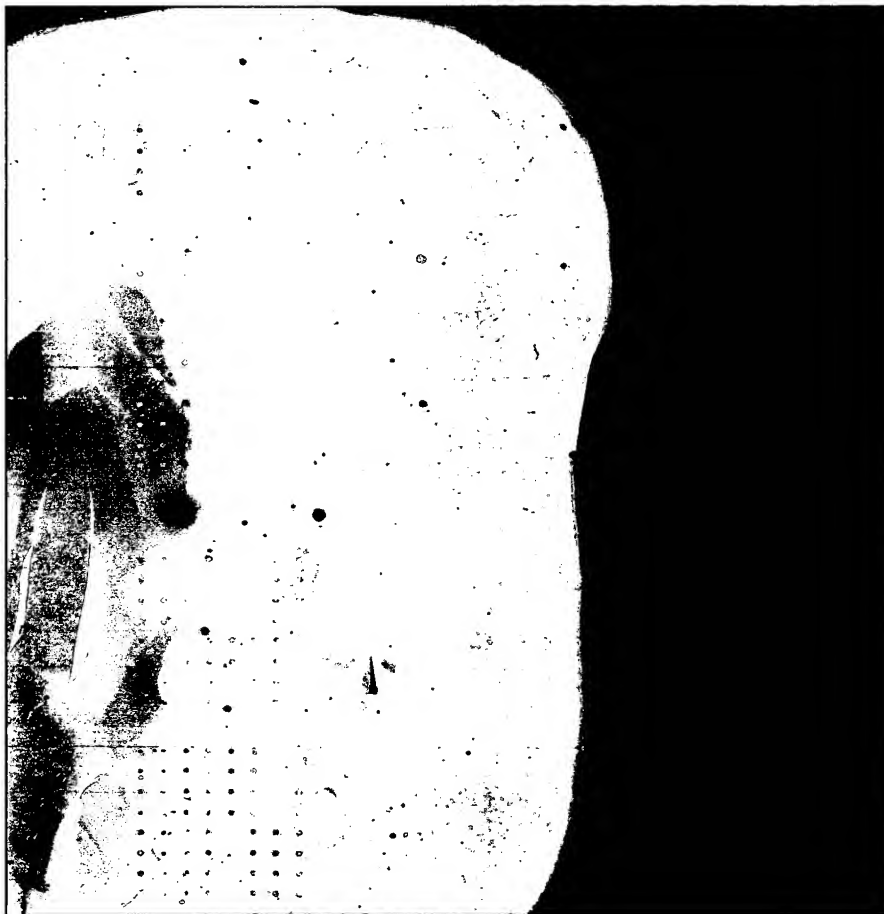


FIG. 35

Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1368 pixels
(21.8 x 13.68 mm)
Scaling = 10 μ m/pixel
Scanner = GenePix 4100A 01 [92896]
No averaging.
PMT Gain = 560
Laser Power = 100%
Normalization Factor = 1
Filter = 670DF40
Focus Position = 0

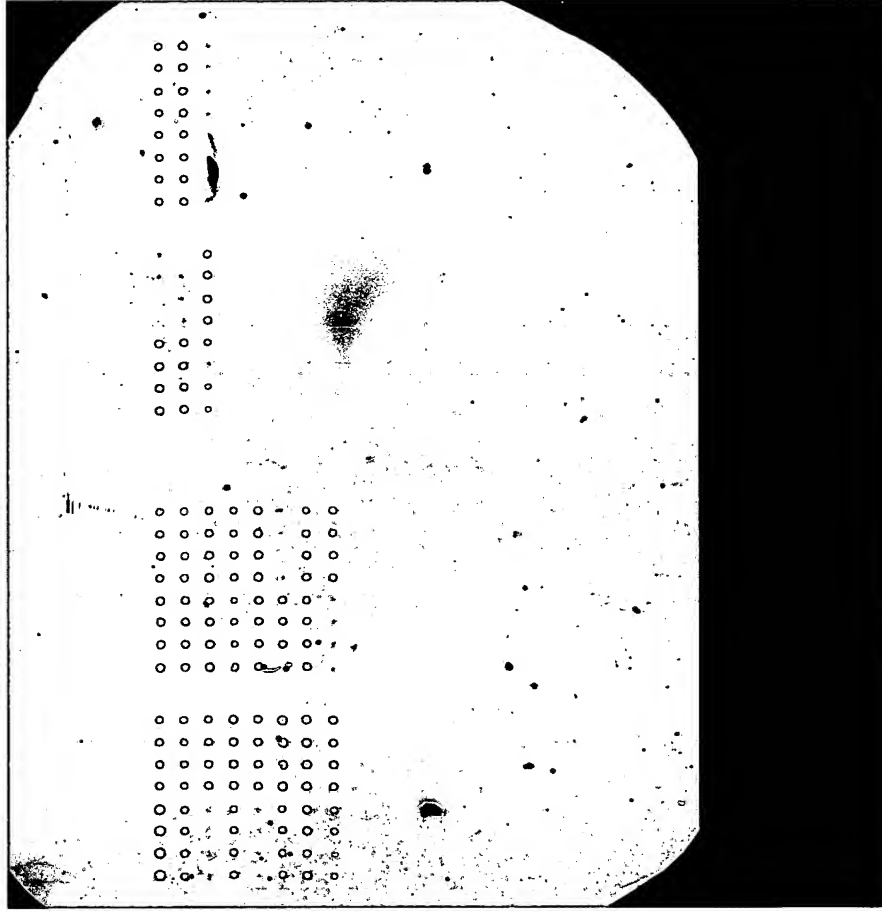


FIG.36

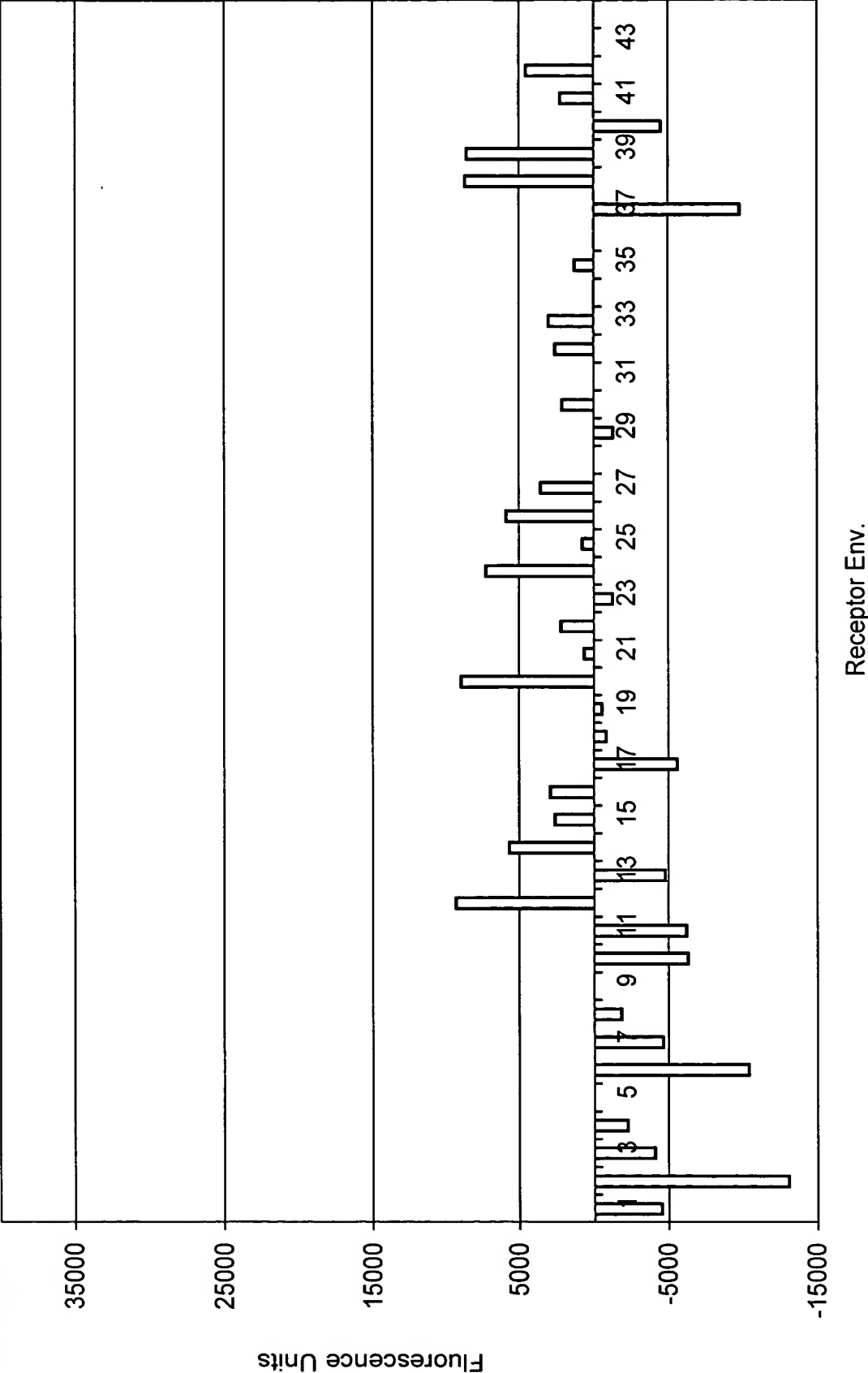


FIG.37

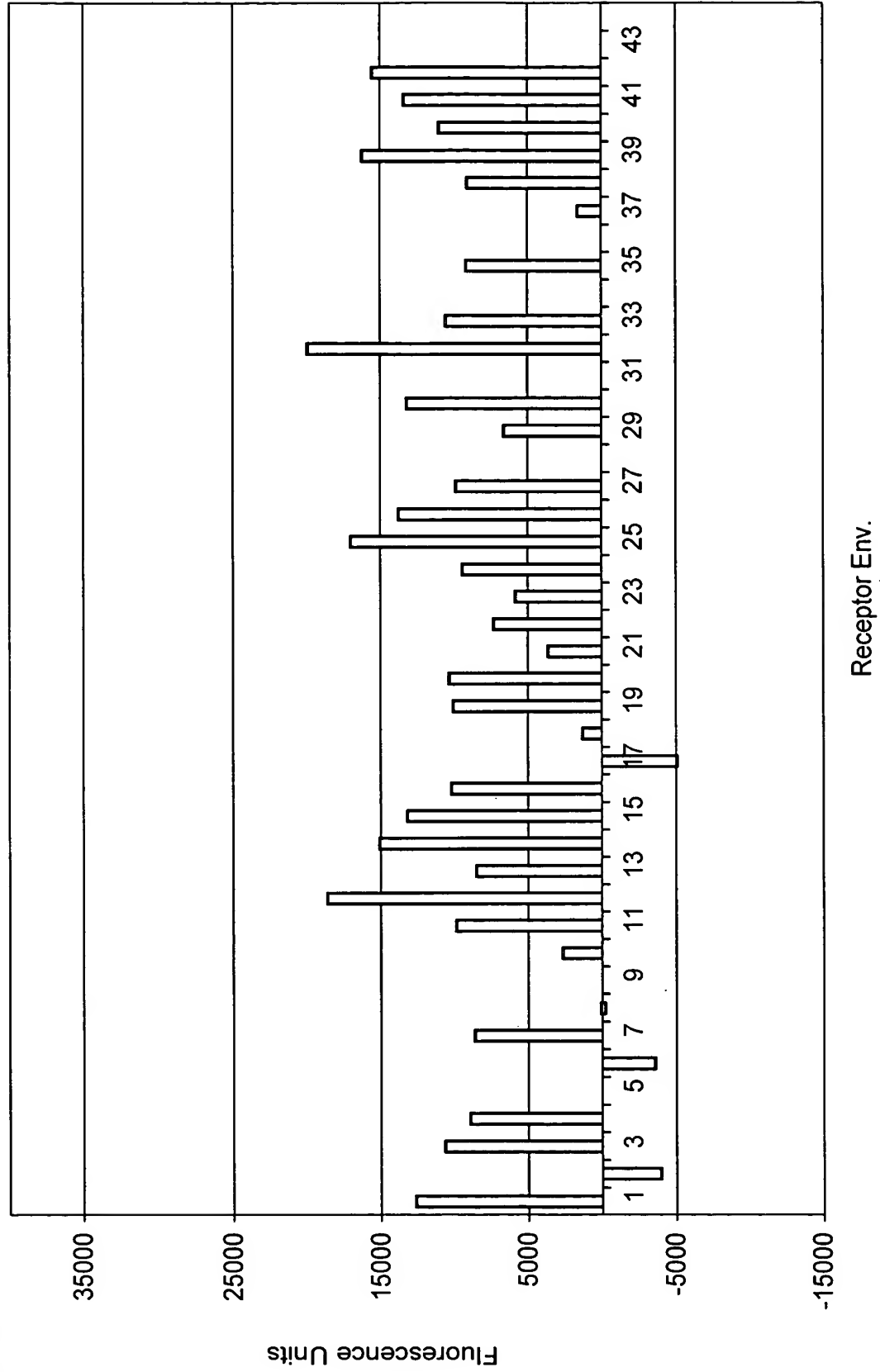


FIG.38

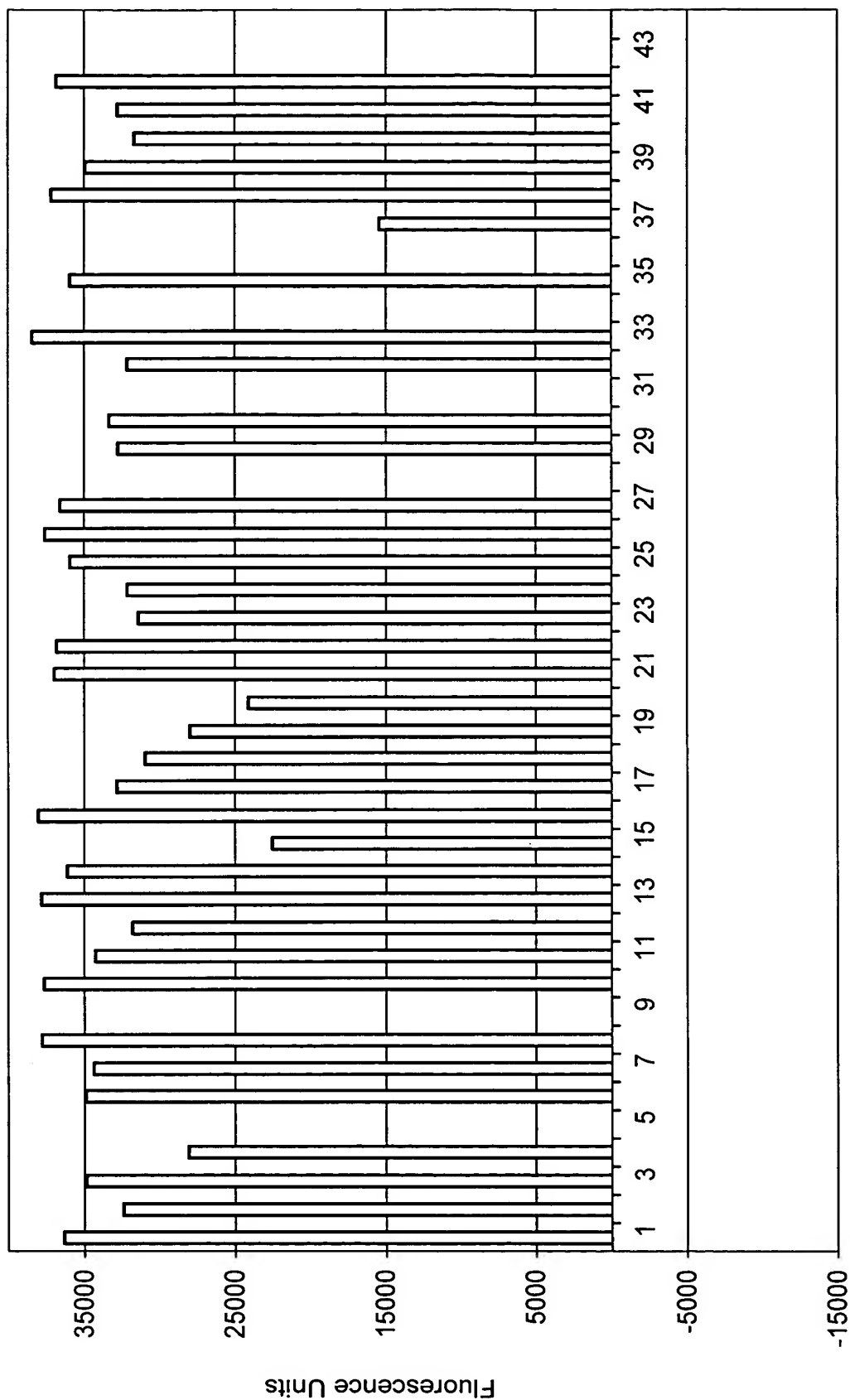
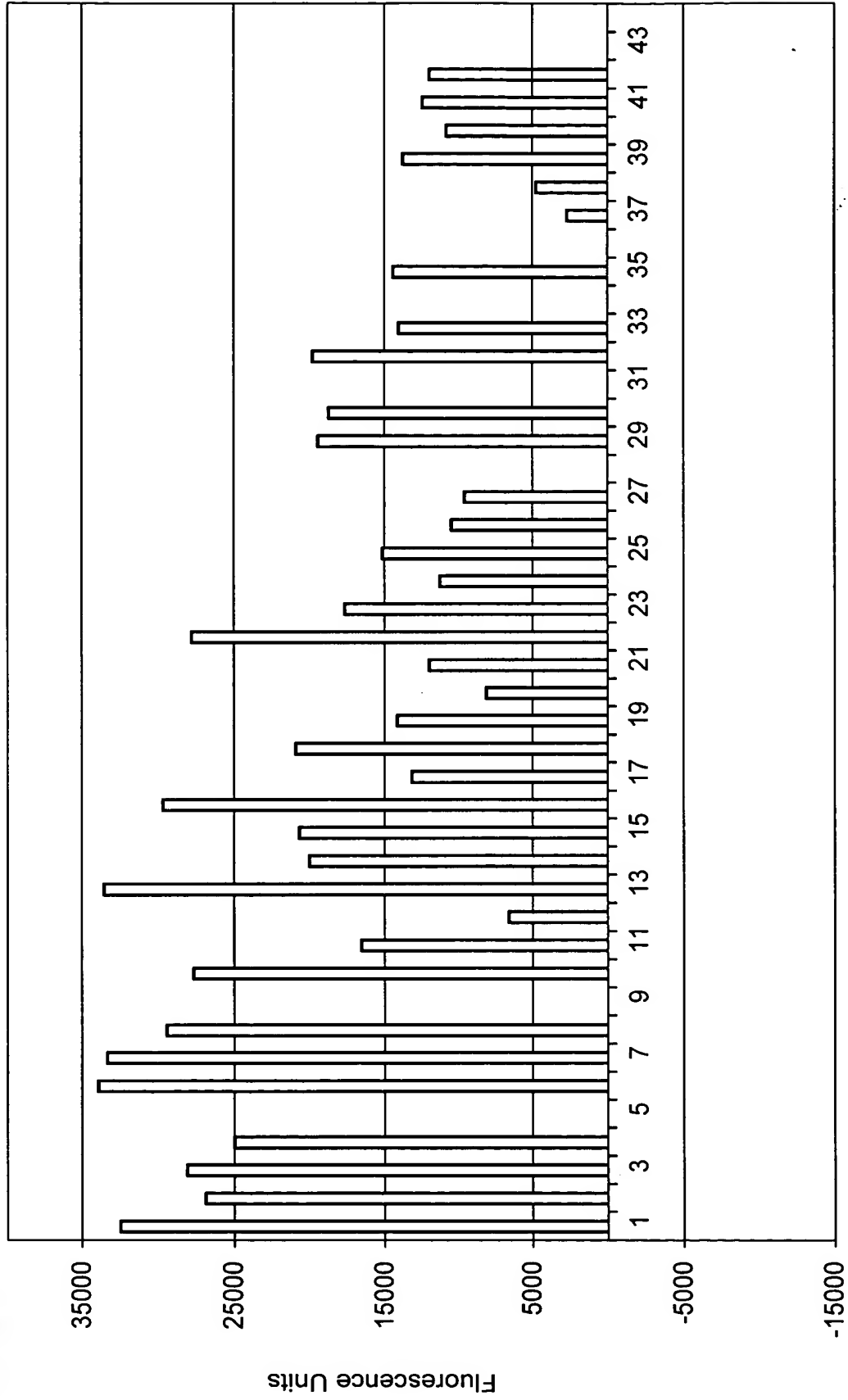
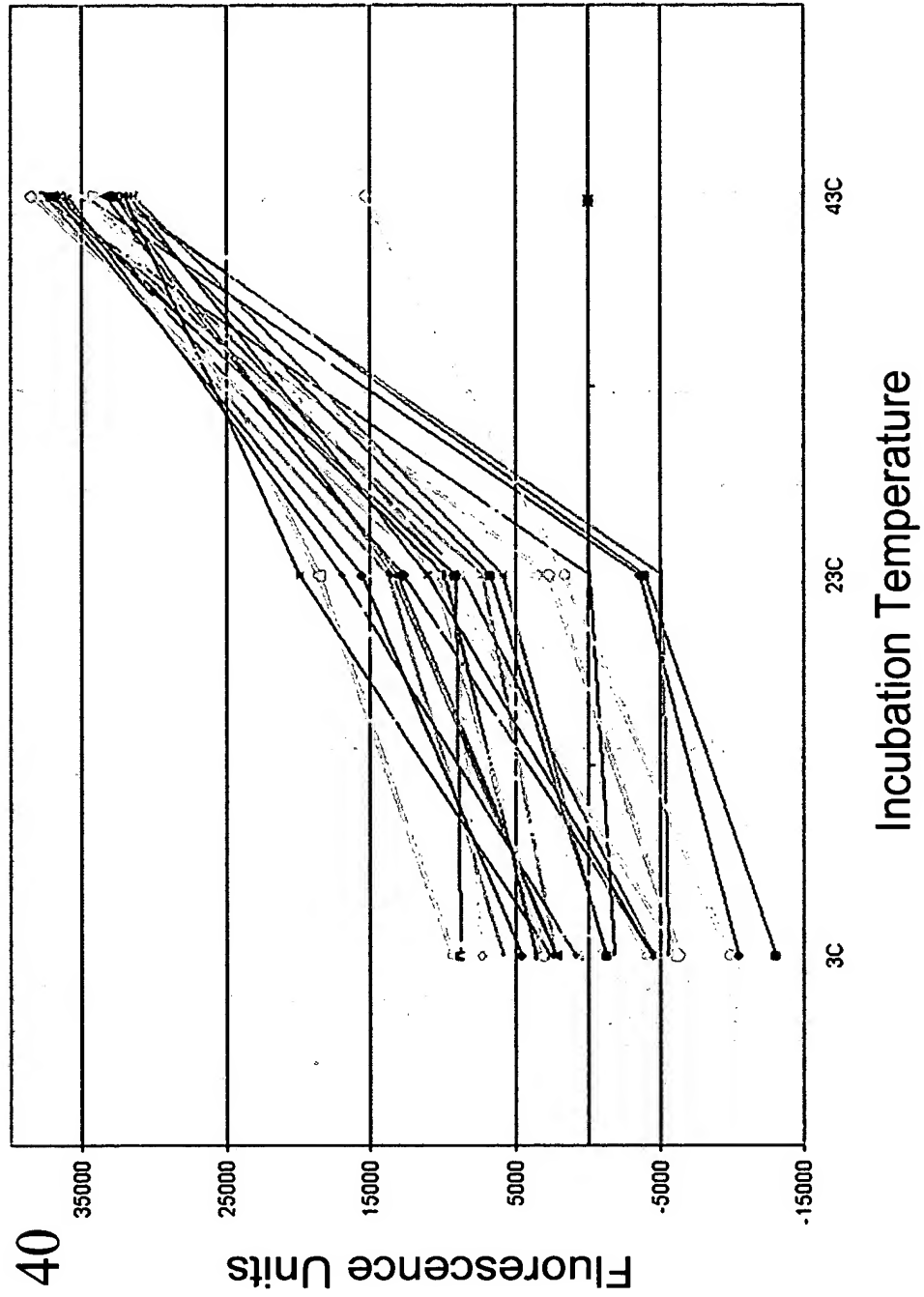


FIG.39





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